EKI-6331 & EKI-6332 Bridge mode configuration SOP

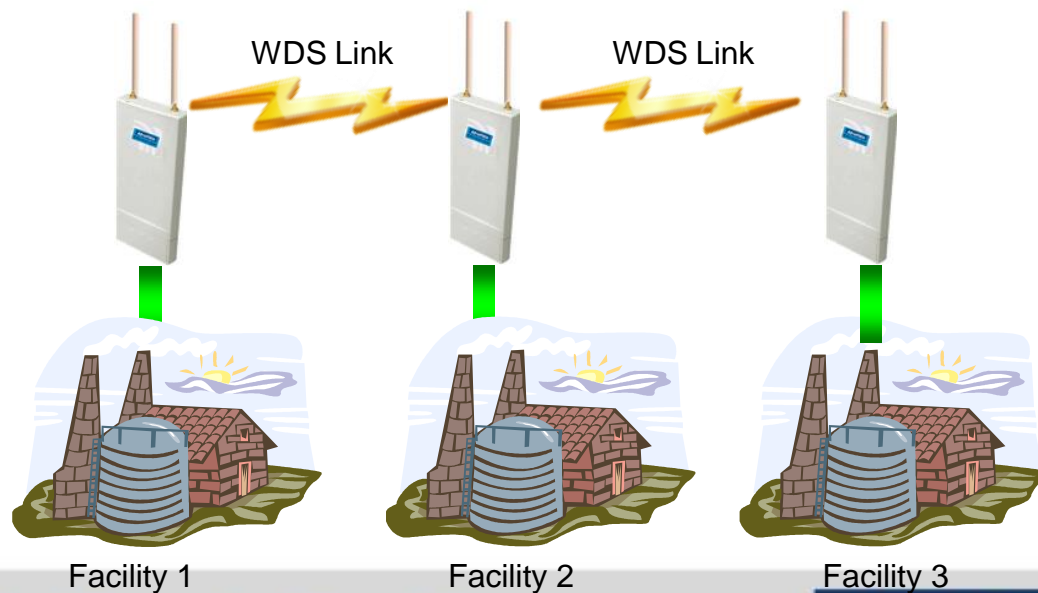| Revision Date	Revision	Description	Author
April/2018	V1.0	Initial release	ICG AE Jacky.Lin

Abstract

❖ **This SOP explains how to configure the EKI-6331 & EKI-6332 in Bridge mode.**

❖ **Related products:**

EKI-6331, EKI-6332

❖ **Requirement:** Two EKI-6331 or EKI-6332 devices

❖ **Note : Please refer the "SOP_EKI-6331 & EKI-6332 AP & client mode configuration" for understanding basic setting first.**
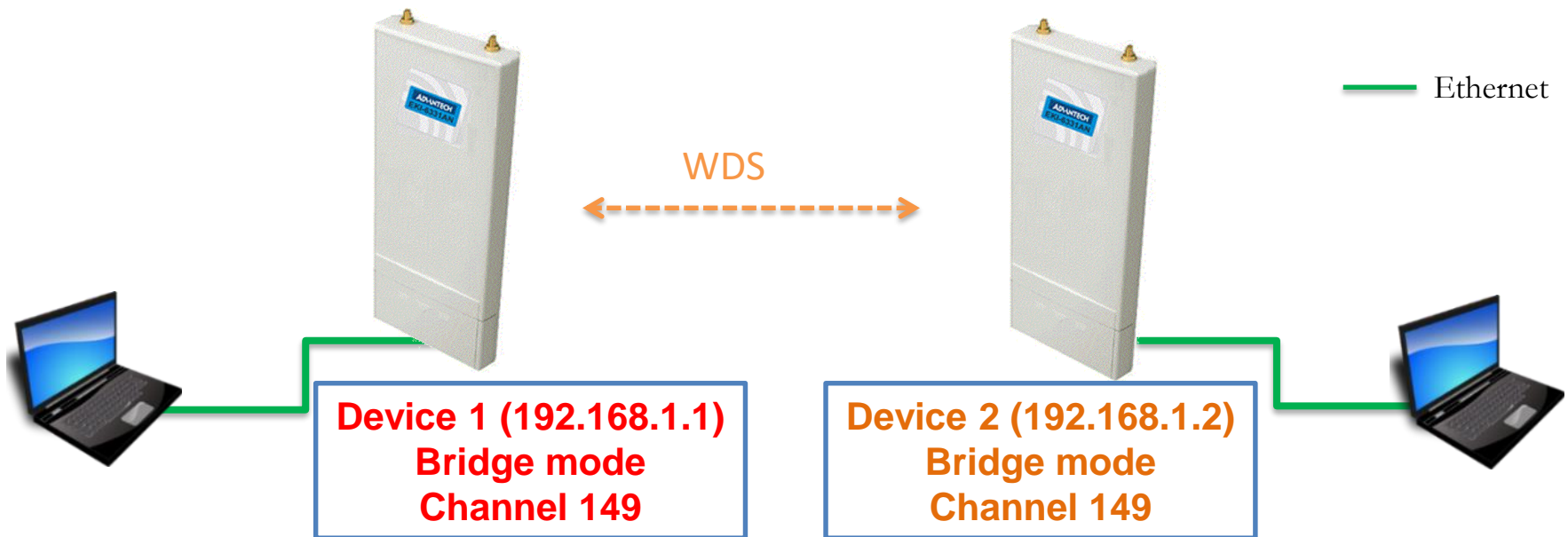
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Bridge mode

Bridge mode

- **Scenario:** Need a dedicated point-to-point connection.
    - By setting as **Bridge** mode, two or more EKI devices can act as bridges. (Bridge by WDS)
    - EKI-633x can only bridge with the same model.
- **Multiple bridges**
    - Support up to 4 WDS for each EKI
    - Half of bandwidth whiling adding one more layer. (We suggest no more than three layers. Please refer the "FAQ_EKI-633x_Application Limitation for AP repeater & Bridge mode" for detail explanation)
    - Normally, the multiple bridges could only use the omni antennas but no directional antennas.

WDS Link   WDS Link

Facility 1   Facility 2   Facility 3

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Topology : Bridge – Bridge

Ethernet

WDS

Device 1 (192.168.1.1)
Bridge mode
Channel 149

Device 2 (192.168.1.2)
Bridge mode
Channel 149

WDS setting

Local MAC
Remote AP MAC

| 00:19:70:c1:3d:ec |
| 00:19:70:c1:3d:e7 |

| 00:19:70:c1:3d:e7 |
| 00:19:70:c1:3d:ec |

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Bridge mode setting – Device 1

Device 1 (192.168.1.1)

Device 2 (192.168.1.2)

Status	System	Wireless	Management	Tools

Basic Settings »

Security Settings

Advanced Settings

Traffic Shaping

Access Control

WDS Settings

Basic Settings

Use this page to change the wireless mode as well as configure any associated wireless network parameters.

☐ **Disable Wireless LAN Interface**

Operation Mode:	Bridge ▼	Site ▼
802.11 Mode:	802.11A/N ▼
Channel Mode:	20 MHz ▼
Channel:	5745MHz (149) ▼
Extension Channel:	None ▼
Data Rate:	Auto ▼

1. **Set to Bridge mode**
2. **Decide the 802.11 type/channel**

Bridge mode setting – Device 2

Device 1 (192.168.1.1)

Device 2 (192.168.1.2)

| Status | System | Wireless | Management | Tools |

Basic Settings »

Security Settings

Advanced Settings

Traffic Shaping

Access Control

WDS Settings

Basic Settings

Use this page to change the wireless mode as well as configure any associated wireless network parameters.

☐ **Disable Wireless LAN Interface**

Operation Mode:	Bridge ▼	Site Survey
802.11 Mode:	802.11A/N ▼	
Channel Mode:	20 MHz ▼	
Channel:	5745MHz (149) ▼	
Extension Channel:	None ▼	
Data Rate:	Auto ▼	

Make sure the setting is as same as device 1 , especially channel.

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Wireless Settings- WDS setting

➢ The bridging EKI only communicate with the EKI whose MAC is in its WDS setting.
➢ Please add the MAC address of the EKI on the both side (device1 /device2)

Bridge_1

Status	System	Wireless	Management	Tools

Basic Settings
Profile Settings
Advanced Settings
Traffic Shaping
Access Control
WDS Settings »

WDS Settings

A Wireless Distribution System allows interconnection of access points in an IEEE 802.11 network. To do this, you must set all interconnected APs in the same channel, input the MAC addresses of the other APs which you want to communicate with in the table below and enable the WDS Separation function. This function will only work in Bridge and AP Repeater modes.

Local MAC Address: 00:19:70:c1:3d:ec

WDS MAC Address 1:   00:19:70:c1:3d:e7

Bridge_2

Status	System	Wireless	Management	Tools

Basic Settings
Profile Settings
Advanced Settings
Traffic Shaping
Access Control
WDS Settings »

WDS Settings

A Wireless Distribution System allows interconnection of access points in an IEEE 802.11 network. To do this, you must set all interconnected APs in the same channel, input the MAC addresses of the other APs which you want to communicate with in the table below and enable the WDS Separation function. This function will only work in Bridge and AP Repeater modes.

Local MAC Address: 00:19:70:c1:3d:e7

WDS MAC Address 1:   00:19:70:c1:3d:ec

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Reboot the device

- Reboot the device1 /device 2
  - Path: Management → configuration file → Reboot

Status	System	Wireless	**Management**	Tools

Password Settings

Firmware Upgrade

Configuration File »

User Certificates

Remote Services

SNMP Settings

Configuration File

This page allows you to save current settings to a file or load the settings from the file which was saved previously. You may also reset the current configuration to factory default or reboot the device.

Save Settings to File:	Save...
Load Settings from File:	選擇檔案 未選擇任何檔案
Reset Settings to Default:	Reset
Reboot The Device:	Reboot

Reboot the device and wait for starting the WiFi service

Youtbe 登入 Google 地圖 Facebook ICIBA Adv...ch AD emplyee AD mail Yahoo奇摩 Agile Product Lifec...

This device has been reboot, you have to login again.
Please wait for **36** seconds before attempting to access the device again...

Check the Connection status

Bridge_1 192.168.1.1

Bridge_2 192.168.1.2

Bridge_1

| Status | System | Wireless | Management | Tools |

Information

Connections »

Statistics

ARP Table

Bridge Table

Association List

This table shows the MAC Address, 802.11 Mode, Signal Strength and Connected Time for each associated device(s).

#	MAC Address	802.11 Mode	Signal Strength	Connected Time
1	00:19:70:c1:3d:e7	802.11A/N	-36 dBm	4s

Bridge_2

| Status | System | Wireless | Management | Tools |

Information

Connections »

Statistics

ARP Table

Bridge Table

Association List

This table shows the MAC Address, 802.11 Mode, Signal Strength and Connected Time for each associated device(s).

#	MAC Address	802.11 Mode	Signal Strength	Connected Time
1	00:19:70:c1:3d:ec	802.11A/N	-32 dBm	2m:25s

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Advanced - Multiple Bridge

➢ Set more bridge as below structure

Ethernet

| Bridge 1 (192.168.1.1) | Bridge 2 (192.168.1.2) | Bridge 3 (192.168.1.3) |

WDS setting

Local MAC	00:19:70:c1:3d:ec	00:19:70:c1:3d:e7	00:19:70:c1:3d:e8
Remote AP MAC	00:19:70:c1:3d:e7	00:19:70:c1:3d:ec	00:19:70:c1:3d:e7
Remote AP MAC 2		00:19:70:c1:3d:e8	

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Advanced – Multiple Bridge Check the Connection status

Bridge_1

Connections »

Statistics

ARP Table

Bridge Table

This table shows the MAC Address,802.11 Mode,Signal Strength and Connected Time for each associated device(s).

#	MAC Address	802.11 Mode	Signal Strength	Connected Time
1	00:19:70:c1:3d:e7	802.11A/N	-35 dBm	7m:17s

Bridge_2

Connections »

Statistics

ARP Table

Bridge Table

This table shows the MAC Address,802.11 Mode,Signal Strength and Connected Time for each associated device(s).

#	MAC Address	802.11 Mode	Signal Strength	Connected Time
1	00:19:70:c1:3d:ec	802.11A/N	-27 dBm	3m:21s
2	00:19:70:c1:3d:e8	802.11A/N	-33 dBm	3m:21s

Bridge_3

Connections »

Statistics

ARP Table

Bridge Table

This table shows the MAC Address,802.11 Mode,Signal Strength and Connected Time for each associated device(s).

#	MAC Address	802.11 Mode	Signal Strength	Connected Time
1	00:19:70:c1:3d:e7	802.11A/N	-27 dBm	3s