Connect Before Break

Application Note



Connect Before Break

Connect Before Break 기능은 두 개의 무선 모듈을 사용하는 방식으로써 첫번째 무선 모듈이 무선 AP 에 연결되어 데이터통신을 하는 동안 두 번째 무선 모듈은 데이터통신에 관여하지 않고 가장 우 수한 무선 신호세기를 가진 무선 AP 를 스캔하는 작업만을 수행 합니다.

이때 이동체의 이동으로 앞서 주변 AP를 스캔하던 두 번째 무선 모듈은 가장 우수한 AP를 발견 즉 시 스캔하던 역할을 멈추고 스캔이 완료된 우수한 신호의 AP에 즉시 연결(Connect)을 하고, 데이터 통신 작업을 수행하는 역할로 즉시 변경되며, 데이터 통신을 담당하던 첫번째 무선 모듈은 데이터 통신을 하던 기존 AP 와의 연결을 끊고(Break) 즉시 주변 AP를 스캔하는 역할로 변경됩니다.

이러한 반복적인 프로세스로 진행되며 현재 가장 진보된 최신의 고속 무선 로밍(0ms) 기술인 "Connect Before Break" 라는 명칭으로 서비스되고 있습니다.



STATUS MAC ADDRESS

STATUS – NETWORK 탭에서 LAN & WiFi 의 MAC 주소를 확인할 수 있습니다.

	INTERFA	CES					
BRIDGES MULTICAST ROUTES	ilili LAN						
WIRELESS			IP	CONFIGURATION			
SECURITY			IPv4: 192.168.4	I.253 Netmask: 24 MTU IPv6 Stack	J: 1500		
LOGS			IPv6: fd38:1e7a:b5 IPv6: fe80::209:90ff:	i87::1 Netmask: 60 Sco fe02:6326 Netmask: 64	ope: global I Scope: link		
	GRAPH	PHYSICAL INTERFACE	MAC ADDRESS	TX COUNT (IN BYTES)	RX COUNT (IN BYTES)	INTERFACE MODE	мти
	âñ	WiFi 2	00:09:90:02:63:25	645331	7516	Role: Access Point (infrastructure) SSID: acksys Channel: 165	1500
	âñ	WiFi 1	00:09:90:02:63:24	650323	21840	Role: Access Point (infrastructure) SSID: acksys Channel: 11	1500
	âĥ	LAN1	00:09:90:02:63:26	551996	880060	Negotiated 1000 baseTX FD, link ok	1500
	- 111 i	LAN2	00.09.90.02.63.27	0	0	no link	1500



ilili LAN	i LAN										
	IP CONFIGURATION										
	IPv4: 192.168.2.200 Netmask: 24 MTU: 1500										
	IPv6 Stack IPv6: fd71:259e:6a28::1 Netmask: 60 Scope: global IPv6: fe80::68e8:10ff:fe6c:3acc Netmask: 64 Scope: link										
GRAPH	PHYSICAL INTERFACE	MAC ADDRESS	TX COUNT (IN BYTES)	RX COUNT (IN BYTES)	INTERFACE MODE	мти					
ilili	bond1	6a:e8:10:6c:3a:cc	0	0	no link	1500					
ilili	LAN1	00:09:90:02:63:26	435448	183270	Negotiated 1000 baseTX FD, link ok	1500					
îlî	LAN2	00:09:90:02:63:27	0	0	no link	1500					

※ CBB 설정이 완료될 경우 해당 WiFi MAC 이 표시되지 않습니다. 보안 서버 MAC 등록이 필요한 경우, 사전에 미리 WiFi MAC 주소를 캡처하여 주시기 바랍니다.



Client – Configuration (Dual Radio 제품만 지원) 무선 설정 SETUP – PHYSICAL INTERFACES 탭을 클릭하여 무선 설정값을 변경할 수 있습니다.

MIRLESS INTERFACES OVERVIEW Vice can set up to 8 simultaneous roles (wifi interface types) per radio card, among the following combinations: Combination Channel selection Access point infrastructure client Combination Multiplicity Can use DF S Access point infrastructure client Multiple access points single, auto, multiple yes 8 1 SRCC single, auto, multiple yes 8 1 Other / Advisoc single no 8 1 Other / Advisoc single, auto, multiple yes 8 1 Other / Repairs single, auto, multiple, roaming yes 8 1 Other / Repairs single, auto, multiple, roaming yes 8 1 Other / Repairs single, auto, multiple, roaming yes 8 1 Who using several roles, they all use the same shared channel; in this case, the client role must not be set to multichannel roaming. Repaire mode is a combination of two roles. access point + client. Wif1 : MINTERAC Yeint 14 (do2.11n) Wireless interface (not configurable + part of a cluster) Client Mole Access Transparent client (infrastructure)				
You can set up to 8 simultaneous roles (wfi interface types) per radio card, among the following combinations: Max number of im Combination Multiplicity Can use DFS Access point Infrastructure client Multiple access points single, auto, multiple, yes 8 1 SRCC single yes SRCC managed SRCC managed Other / At-hoc single yes SRCC managed SRCC managed Other / At-hoc single no 8 1 Other / At-hoc single no 8 1 Other / Repart single no 8 1 WFI toridge single, auto, multiple, roaming yes 1 1 1 When using several roles, hive aluse the same shared channel, in this case, the client role must not be set to multichannel roaming. Repart roles ACCE rooming ACCE rooming ACCE rooming ACCE rooming ACCE rooming ACCE rooming ACCE roomi				
Tou can set up to 5 simultaneous roles (whi interface types) per radio card; among the tollowing combinations: Channel selection Max number of interface (not cards WiFI 5 radio cards WiFI 4 only radio cards WiFI 1 for genetar single no WiFI 4 only radio cards WiFI 1 for genetar single no 8 (non-coaming) WiFI 1 for genetar single no 8 (non-coaming) WiFI 1 WiFI 4 (802.11n) Wireless interface Cardio cards WiFI 1 WiFI 4 (802.11n) Wireless interface Site Cardio cards <th <="" colspan="2" td=""><td></td><td></td></th>	<td></td> <td></td>			
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Combination Multiplicity Can use DFS Access point Infrastructure client Multiple access points single, auto, multiple, roaming yes 8 1 SRCC single auto, multiple, roaming yes SRCC managed SRCC managed Other / Ad-hoc single no Wi-FI 4 only radio cards 1 Multiple access points single, auto, multiple, roaming yes SRCC managed SRCC managed Other / Ad-hoc single, auto, multiple yes 3 1 1 Other / Ad-hoc single, auto, multiple yes 3 1 1 Other / repeater single, auto, multiple, roaming yes 1 1 1 Other / repeater single, auto, multiple, roaming yes 3 1 1 When using several roles, they all use the same shared channel; in this case, the client role must not be set to multichannel roaming. Repeater mode: a combination of two roles, access point + client. PC C [C I I I I I I I I I I I I I I I I	terfaces			
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Other / Ad-boc single no Wi-Fi 4 only radio cards Multiple access points single, auto, multiple yes 8 Portal single no 8 Client/ bridge single, auto, multiple, roaming yes 1 Other / repeater single no 8 1 When using several roles, they all use the same shared channel; in this case, the client role must not be set to multichannel roaming. Repeater mode is a combination of two roles: access point + client. WiFi 1: Wi-Fi 4 (802.11n) Wireless interface CHANNEL 802.11 mODE SSID ROLE WiFi 1: Wi-Fi 5 (802.11nc) Wireless interface (not configurable - part of a cluster) ACCTIONS Transparent client (infrastructure) ACCTIONS Transparent client (infrastructure) WiFi 2: Wi-Fi 5 (802.11ac) Wireless interface (not configurable - part of a cluster) WiFi 2: Wi-Fi 5 (802.11ac) ROLE SIO ROLE SIGLOBAL WIFI PARAMETERS 802.11 MODE SSID ROLE ROLE RADIO REGULATION AREA Country United States V Cluster mode Group for connect before break States V				
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36 40 44 48 802.11a+n acksys Transparent client (infrastructure) ACTIONS 4 WI-FI INTERFACE WIFI 2: WI-FI 5 (802.11ac) Wireless interface (not configurable - part of a cluster) ROLE ROLE WIFI 2: WI-FI 5 (802.11ac) Wireless interface (not configurable - part of a cluster) ROLE ROLE GLOBAL WIFI PARAMETERS RADIO REGULATION AREA Transparent client (infrastructure) RADIO CLUSTER Country United States	SECURITY	AC		
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CHANNEL 802.11 MODE SSID ROLE 36 40 44 48 802.11a+n acksys Transparent client (infrastructure) GLOBAL WIFI PARAMETERS Country United States RADIO REGULATION AREA Country United States Cluster mode Group for connect before break V				
36 40 44 48 802.11a+n acksys Transparent client (infrastructure) GLOBAL WIFI PARAMETERS Country United States RADIO REGULATION AREA Country United States RADIO CLUSTER Cluster mode Group for connect before break	SECURITY	A		
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RADIO REGULATION AREA Country United States RADIO CLUSTER Cluster mode Group for connect before break				
Country United States RADIO CLUSTER Cluster mode Croup for connect before break				
RADIO CLUSTER Cluster mode Group for connect before break				
Cluster mode Group for connect before break				
Group for connect before break				
Primary data card				
WiFi 1 0 WiFi 2				

- 1. RADIO CLUSTER 탭에서 Cluster mode 를 Group to connect before break 로 변경합니다.
 - 반드시 Pirmary 와 Secondary 인터페이스는 분리해야 합니다. 예) Primary : WiFi 1 / Secondary : WiFi 2
- 2. 무선 디바이스 활성화 버튼 클릭 후 Save 버튼을 클릭합니다. (녹색 : 활성화, 적색 : 비활성화)
- 3. ACTIONS 의 편집 버튼을 클릭합니다.



PH' VIR NE VPI BRI RO QO

Client - Configuration

DEVICE CONFIGURATION	
General Setup a/b/g Data Rates 802.11n Mcs 802.11 mode	Advanced Settings 802.11a+n (5 GHz) Changing the mode may affect the list in the 'a/b/g data rates' tab
HT mode	20MHz V Automatic 40MHz HT mode is not compatible with AP, Ad-hoc, Mesh
Automatic channel select	Automatic channel select is not compatible with Ad-hoc, Mesh a
Channel	36 (5.180 GHz) - Max Tx power 23 dBm 40 (5.200 GHz) - Max Tx power 23 dBm 44 (5.220 GHz) - Max Tx power 23 dBm 48 (5.240 GHz) - Max Tx power 23 dBm 52 (5.260 GHz) - Max Tx power 23 dBm (DFS) 56 (5.280 GHz) - Max Tx power 23 dBm (DFS)

1. 802.11 mode 탭에서 사용하고자 하는 주파수 방식을 선택합니다. (802.11a+n 5GHz 권장)

 Automatic channel select 탭의 체크박스를 해제 한 후 AccessPoint 와 동일한 채널을 선 택합니다.
 ※Ctrl 버튼을 누른 상태로 선택하면 멀티 채널을 선택 할 수 있습니다.

INTERFACE CONFIGURATION	
General Setup Wireless Security Advanced Settings Roami	ng Advanced Roaming Frame filters
Multiple ESSIDs	
ESSID	acksys
Mesh ID	
Bond interface	create bond interface: Hyundai The cluster mode "connect before break" requires a "bond" virtual interface to work

3. Role 탭에서 Client 로 설정합니다.

4. **ESSID** 탭을 통해 네트워크의 SSID 를 설정합니다. (AccessPoint & Client 동일 설정)

5. Bond interface 에서 Connect Before Break 에 대한 인터페이스를 추가합니다.



Client - Configuration	
General Setup Wireless Security Advanced Settings Roam	Advanced Roaming Frame filters
 When Proactive Roaming is disabled, the device will scan the general channel When Proactive Roaming is enabled, its suboption 'list of channels scanned' DFS channels are subject to passive scans. 	els selection configured above. will supersede the general channels selection above.
Enable proactive roaming	If unchecked, the device will not roam until it loses its current AP
Access point selection algorithm	We Predictive Linear Handover. See 'Linear Roaming' tab for specific options.
List of channels scanned for the next AP discovery	36 (5.180 GHz) 40 (5.200 GHz) 42 (5.210 GHz) 44 (5.220 GHz) 48 (5.240 GHz) 52 (5.260 GHz) (DFS) 3 If no channel is selected, the scan list is the complete list of available channels In 802.11n HT mode 40MHz, if the primary channel of the AP is not fixed, you will have to select both the primary and sec
	channels
Delay between two successive scan cycles	10000
	Value in milliseconds, e.g. "10000". Must be greater than 0
Current AP leave threshold	-40
	Value in dBm, e.g. "-60". Below (worse than) this value, the device will try to use another AP

6. Roaming 탭에서 Enable proactive roaming 을 체크하여 로밍 기능을 활성화 합니다.

7. List of channels scanned for the next AP discovery 에서 설정된 AccessPoint 의 채널을 선택합니다. ※Ctrl 버튼을 누른 상태로 선택하면 멀티 채널을 선택 할 수 있습니다.

8. Current AP leave threshold 에서 통신 신호 세기에 대한 로밍 절체 시간값을 조절할 수 있습니다. (기본값 -60)

General Setup	Wireless Security	Advanced Settings	Roamin	g Advanced Roaming	Frame filters	
Bridging mode				4 addresses format (WDS	5)	~
				Allows to set the bridging meth	od. Applied only if thi	s interface is added in a bridge

9. Advanced Settings 탭에서 Bridging mode 를 4 addresses format (WDS) 로 변경 합니 다.



Client - Configuration

IP 변경 SETUP – NETWORK – LAN 탭 클릭 후 제품의 IP 주소, 서브넷 마스크, 게이트웨이를 변경할 수 있습니다.

	SETUP TOOLS STATUS									
PHYSICAL INTERFACES	NETWORK - LAN									
NETWORK	On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and tick the names of several network interfaces.									
LAN	COMMON CONFIGURATION									
BRIDGING ROUTING / FIREWALL	General Setup Interfaces Settings Advanced Settings IP	v6 Setup								
QOS SERVICES	Network description	Friendly name for your network								
	Protocol	static v								
	Pv4-Netmask	192.168.2.102 255.255.255.0								
	Derault <u>IPV4</u> gateway									
	Default gateway metric <u>DNS</u> server(s)	O Gateway priority when several default gateways are configured; lowest is chosen. (Used only when a default gateway is defined on this interface) Vou can specify multiple DNS servers here, press enter to add a new entry. Servers entered here will override automatically assigned ones.								

구성하고자 하는 네트워크의 고정 IP를 입력합니다.

COMMON CONFIGURATION							
General Setup Interfaces Settings Advanced Settings IPv6 3	Setup						
Bridge interfaces	Image: creates a bridge over specified interface(s)						
Enable <u>STP/RSTP</u>	(2) Enables the Spanning Tree Protocol on this bridge WARNING: Some cautions must be taken with wireless interfaces, please see user guide						
Enable LLDP forwarding	Image: Second Seco						
bridge VLAN	🗌 😰 Enable VLAN management in bridge. You must configure the bridge VLANs before enabling this option (setup->bridging)						
Interface	WiFi adapter: WiFi 2 - acksys (bond: WITREETEST)						
	WiFi adapter: WiFi 1 - acksys (bond: WITREETEST)						
	Z 🚂 Bond virtual interface: (network: lan)						
	Ethernet adapter: LAN1 (network: lan)						
	Ethernet adapter: LAN2 (network: lan)						
мти	1500						

Interfaces Settings 탭 클릭 후 Interface 에서 생성된 Bond virtual interface 를 체크합니 다. 설정이 완료되면 Save & Apply 버튼을 클릭하여 설정을 적용합니다.

※ IP 변경 후 PC의 네트워크 또한 변경된 IP 대역으로 설정해야 합니다.

Client - STATUS

ASSOCIATED STATIONS

ASSOCIATED STATIONS RESULTS : 2										
GRAPH	RADIO	NAME / SSID	MODE O	MAC 0		SIGNAL O	NOISE \ominus	SIGNAL/NOISE		
ilifi	WiFi 1	acksys	Infrastructure	00:09:90:02:63:AD	153	-37 dBm	-95 dBm	58 dB		
ilifi	WiFi 2	acksys	Infrastructure	00:09:90:02:63:B1	153	-37 dBm	-103 dBm	66 dB		

SERVICES STATUS

٧	VIFI 1										
	SERVICE	SSID	MAC	STATUS	CHANNEL	FREQUENCY	CHANNEL WIDTH	HT MODE	PASSPOINT		
	Client	N.A	00:09:90:02:63:24	SCANNING	N.A	N.A	N.A	N.A	N.A		
۷	WIFI 2										
	SERVICE	SSID	MAC	STATUS	CHANNEL	FREQUENCY	CHANNEL WIDTH	HT MODE	PASSPOINT		
	Client	acksys	00:09:90:02:63:25	COMPLETED	153	5765 MHz	20 MHz	HT20	N.A		

SERVICES STATUS

WIFI	NIFI 1										
	SERVICE	SSID	MAC	STATUS	CHANNEL	FREQUENCY	CHANNEL WIDTH	HT MODE	PASSPOINT		
	Client	acksys	00:09:90:02:63:24	COMPLETED	153	5765 MHz	20 MHz	HT20	N.A		
			· · · · · · · · · · · · · · · · · · ·								
WIFI	WIFI 2										
:	SERVICE	SSID	MAC	STATUS	CHANNEL	FREQUENCY	CHANNEL WIDTH	HT MODE	PASSPOINT		
	Client	acksys	00:09:90:02:63:25	COMPLETED	153	5765 MHz	20 MHz	HT20	N.A		

STATUS – Wireless 에서 현재 연결되어 있는 AccessPoint 의 정보 및 신호 세기를 확인 할 수 있습니다.

