



G1 SCBA Radio Pairing Guide for **KENWOOD VIKING®**

VIKING VP5000 Series VIKING VP6000 Series

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KENWOOD	KENWOOD VIKING Configuration Settings	
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Step 1.	Update Kenwood Radio Firmware to 8.24.13 and Armada Programming Softwar	e to 1.24.13.
Step 2.	Open the Armada [®] Client Application	
Step 3.	Connect the programming cable to the portable radio:Hook the pin end of the connector in the corresponding notch.	
	 Attach the connector with the UDC screw. Ensure the cable's selector switch for UART/USB is set to USB. 	
Step 4.	Insert the USB end of the cable in the computer running Armada.	
Step 5.	Turn on the Kenwood Radio using the volume knob. Wait a few seconds for it to complete its self-test.	
Step 6.	The codeplug should automatically upload to the application and appear in list under the "Codeplugs" tab in the Fleet Management pane.	*r. Armada v124.9 File Edit File Edit Window Ø × Peter Window Ø × Radio Type: 1/1 Radios 1/1 Radios Image: Conceptions Aliss Mode Redio 2
Step 7.	Double click the radio on the "Codeplugs" tab to open the Radio Information dialog. Ensure that the radio has the Bluetooth Option.	
	If it is not, contact 800.328.3911 x 3 or TechSupport@efji.com. They will have to enable this feature with a separate utility.	Enhanced VRS - Portable Multideck Secondary Multideck Primary Multideck Primary
Step 8.	General Options → Bluetooth Navigate to the "Global" tab and "General Options" sub-tab for the connected radio, set. In the bottom-right off the "General Options" screen is a "Bluetooth" group of settings:	Radio Type: VP6000 Inter Global Button/Menu Systems General Options General Options 2 Zones/Channels
Step 9.	 Choose the source of the name which displays during pairing requests by using the "Name Type" option: i. Manual – value entered into the "Friendly Name" field in "Bluetooth" group. 	Bluetooth Name Type: Manual Friendly Name: Radio Alias ESN Friendly Name: MSA-KW-R1
	 Radio Alias – value entered into the "Radio Alias" field in the "Display" group. (top middle of the same sub-tab) 	Display Radio Alias: MSA-Kenn-R1
	iii. ESN – Radio's ESN. (the format displayed at the bottom of the application)	Type: VP6430 ESN: F043025804330081



Step 10.	Check " Override Mic Routing " - to route microphone audio ONLY from the G1 SCBA's facepiece microphone. (Overrides the Mic routing options on "Portable Options" sub-tab)	Bluetooth Name Type: Manual ▼ Friendly Name: MSA-KW-R1 ✓ Override Mic Routing
Step 11.	 CHOICE - Audio Output: "□ Route Receive Audio to Radio Speaker": ☑ To route incoming audio to Radio Speaker (or RSM, if attached) □ To route Receive audio to the G1 SCBA's Lapel Speaker 	Bluetooth Name Type: Manual Friendly Name: MSA-KW-R1 Override Mic Routing Route Receive Audio to Radio Speaker
	 Tip: A button (for instance: the O/● Toggle switch N, can be programmed to toggle between the Radio Speaker and G1 Lapel Speaker): Requires Armada point release 8.24.12 and Requires Radio Firmware 8.24.12 	Under the "Button/Menu Tab" click the toggle switch in the image of the top of the radio (or use the Image Toggle dropdown) and set the value to Bluetooth Rx Audio
	(A) Check "Only Auto Connect to Last Device" so that the radio will Auto Connect to the last SCBA it is paired to.	Override Mic Routing Route Receive Audio to Radio Speaker Only Auto Connect to Last Device
Button Options	As described in the " Tip " above: You can program various buttons to behave as desired, including the Bluetooth and Bluetooth Rx Audio functions. Under the "Button/Menu" tab: Multi-select (highlight all) of the "System Types" to which you wish to apply these settings to. (Only "Conventional" is selected in the image to the right.) Then, in the "Buttons" sub-tab: Set Bluetooth and Bluetooth Rx Audio functions to the desired buttons.	Global Button/Henu Systems System Types: Conventional P16 Trunking P25 Trunking P25 Trunking P25 Trunking Buttons Henu Conventional > Henu Button Assignments Side Button 1: Side Button 2: Unprogrammed Side Button 3: Unprogrammed

Soft Menu Options As described in the previous step, you can also configure the "Soft Menu Button" choices (such as "BT" and "BT RX") by **moving** items from "Available Functions" to "Assigned Functions" and **sorting** the order.





G1 Blue Setting	creating a G1 SCBA Configuration Tag (for Bluetooth Pa	ir Save Preferences)
The pur	pose of this section is to: (1) enable the Bluetooth radio on the G1 SCBA and (2) to set Bluetooth Pair Save behavior based on the o	department's preference.
Step 1.	Launch the MSA A2 Software.	A2
Step 2.	Select the "G1 Tags" Tile on the A2 Dashboard (Under the "G1 Devices" column).	G1 Tags read & write G1 Tags
Step 3.	Select tag type: "G1 Configurations"	G1 Configurations
Step 4.	Select the <u>Add</u> (+) icon (top-right hand side of A2 application) to create the configuration template, which will be used to change these 2 settings.	
Note:	Tag can be written without saving the template, but the template can be saved for future use if given a name: Mare BT Radio and Pair Save The Save Icon (top-right) is enabled when the Name is filled in.	
Step 5.	Enabling the G1 SCBA's Bluetooth Radio:	 Bluetooth Settings These settings effect the bluetooth module in the device
	(A) Expand the "Bluetooth Settings" section.(B) Change "Bluetooth Disabled/Enabled" setting to "Enabled".	Bluetooth Disabled/Enabled Bluetooth Pair Save Disabled Disabled Enabled
Step 6.	Preference Choice: "Bluetooth Pair Save" setting options: (Generally, a department's operating procedures will determine its preference)	✓ Bluetooth Settings These settings effect the bluetooth module in the device Bluetooth Disabled/Enabled
	 (A) To apply a Radio Pairing Tag every time SCBA is turned on, choose "Disabled" (B) To retain the Radio Pairing on the SCBA until it's cleared *, choose "Enabled" 	Bluetooth Pair Save TIC Settings
	* - See "Clearing Radio Pairing Info from the G1 SCBA" page.	Menu Enabled
Step 7.	Writing the G1 Configuration Tag:	
	(A) Place RFID Tag on the RFID Reader / Writer	
	(B) Select the Write G1 Tag icon (top-right hand side of A2 application)	
Step 8.	Applying the G1 Configuration Tag to the G1 SCBA(s):	
	 (A) Power on the G1 SCBA (B) Press & hold either of the green Control Module buttons to activate the RFID mode. For iTIC Control modules: Press & Hold Both Green Buttons. (C) Place Bluetooth Pairing Save Tag over G1 Power Module RFID Target. 	
	The G1 SCBA is now configured with the settings: - G1 Bluetooth is now enabled - G1 Bluetooth Pair Save (as chosen).	
	The G1 SCBA is now ready to accept a Radio Pairing tag.	
	Repeat this "Step 8" for each SCBA to apply these 2 settings.	



Radio ID Pair Tag

Creating a G1 SCBA KENWOOD VIKING Radio Pairing Tag

To pair the radio to the G1 SCBA, a "Bluetooth Audio Pairing Tag" needs to be created in the A2 Software. Once the Pairing Tag is created, it can be applied to the SCBA, which "programs" the SCBA to connect to that specific radio.

Step 1.	Launch the MSA A2 Software	A 2
Step 2.	Select the "G1 Tags" Tile on the A2 Dashboard (Under the "G1 Devices" column)	G1 Tags read & write G1 Tags
Step 3.	Select tag type: "Bluetooth Audio Pairing Tags"	Special G1 Tags Copy Tag Erase tag Bluetooth Audio Pairing Tags
Step 4.	Ensure that your PC's Bluetooth adapter is on, and selected for use in A2, and that your RFID Reader/Writer is connected and ready.	Connected Tag Writer:
	 Both modules appear in lower left of A2 display. Generally they will appear as the computer's name, or as "localhost". 	Localhost Select Other Device
	 If either is not visible there or under "Select Other device": disconnect and reconnect the hardware; 	Bluetooth Module: Localhost Select Other Device
	Restart the A2 service if necessary.	
Step 5.	Turn on the Kenwood Radio using the volume knob.	
Step 6.	Ensure Bluetooth is "ON" (enabled on the Radio) with either:	
	(A) The (Blue) Bluetooth Button(B) If configured, the BT Soft Button (front Display)	
Step 7.	Make the Kenwood Radio Discoverable and setting Discoverability Timeout.	Bluetooth Paired Devices
	(A) Press and hold the Bluetooth button or soft button to enter the Bluetooth menu, and navigate to "Discoverable".	Scan Discoverable Disc Timeout Recv Audio Info
	(B) Set "Discoverable" to " On ".	Discoverable off On
	(C) Return to the "Bluetooth" Menu using the "previous" button and select "Disc Timeout".	Bluetooth On / Off Paired Devices Scan Discoverable Disc Timeout Recv Audio
	(D) Set the Discoverability Timeout.	Disc Timeout 1 Min 2 Min 5 Min 10 Min



Step 8.	Discov	ering the Kenwood Radio in A2:		_		
	(A) (B)	Click "Discover Devices" Select the tile for the discovered Kenwood Radio in A2 to select it. The discovered device info will load on the screen: Discovered Bluetooth Device M c5def139-c49b-42a0-925a-ab3c3b5e4e58 Display Name MSA-KW-R1 Bluetooth Address 24718996E84E	_	Discov Select a device Ensure that you mode before so	rer devices you wish to update. Ir G1 is in data link canning. ISA-KW-R1	
Step 9.	Writin	g the Bluetooth Audio Pairing Tag:				
	(A)	Place RFID Tag on the RFID Reader / Writer		— —	×	
	(B)	Select the <u>Write G1 Tag</u> icon (top-right hand side of A2 application)		۲		
	(C)	Click "OK" on the "Tag was successfully written" dialog.	ł	<u>Note:</u> Hoverir also show "Wi Tag".	ng over the icons w rite Tag" or "Read	will d
Step 10.	Verifyi	ng the Information Written to the Tag:				
	(A)	Place RFID Tag on the RFID Reader / Writer		<u> </u>	•	
	(B)	Select the <u>Read G1 Tag</u> icon (top-right hand side of A2 application)				ġ
	(C)	The "Found Tag" screen will appear.		Found Tag	4440	
	(D)	Confirm the tag's Bluetooth Address matches the Radio.		Display Name Bluetooth Address Pairing Pin	MSA-KW-R1 24:71:89:96:E8:4E SSPJustWorks	
	The Ra G1 SCI	adio Pairing tag is now created & can be used to pair this radio with a 3A.		Service	AudioGateway	







Using Paired G1 & Radio

Using the G1 SCBA and KENWOOD VIKING Radio

Confirm that the G1 SCBA, and Radio, are paired together: Radio Tag has been applied (or applied previously and pair is saved)

Step 1.	Turn on the Kenwood Radio using volume knob.	
Step 2.	Don the G1 SCBA and securely attach the G1 Facepiece to your face. A poor facepiece seal can cause improper microphone performance, such as intermittent audio.	
Step 3.	 Turn on the G1 SCBA via pressurization. The G1 SCBA will try to establish a Bluetooth connection to the currently paired radio for up to 8 minutes. When found, it will quickly connect and disconnect, (and is now ready to automatically activate when breathing.) If the connection is not established, repeat the pairing process described in the previous section. 	
Step 4.	Begin breathing (with the regulator attached). The radio and SCBA will connect automatically (approx. 20 seconds).	

All SCBA voice communication will now go from the SCBA through the portable radio.

Use Notes & Tips:

- Turn on the radio before you turn on the G1 SCBA.
- If the regulator is shut off, The G1 SCBA will not remain connected to the radio. The radio can be used by itself (no Bluetooth connection) when the regulator is shut off. The G1 SCBA will automatically reconnect to the Kenwood radio when breathing on the G1 regulator resumes.
- Verify both the incoming and outgoing audio functionality after you have established the Bluetooth wireless connection.



Best practice is to: Clear the pairing information **from both devices**—the radio & the G1 SCBA. This prevents the G1 SCBA from connecting to a previously-paired Bluetooth radio during the next start-up.

Clearing G1 SCBA Pair

Clearing Radio Pairing Info from the G1 SCBA

There are 3 methods for removing stored Radio pairing information from the G1 SCBA.

- All three methods are effective on G1 SCBAs configured with "Bluetooth Pair Save" being "Disabled"
- The "Battery Removal Method" is a popular method, however, note that this method is NOT effective when the G1 SCBA is configured with the "Bluetooth Pair Save" setting set to "Enabled".

Method 1 – Battery Removal (Only effective when the G1 "Bluetooth Pair Save" setting is "Disabled")

Step 1. Remove G1 SCBA Battery

Bluetooth audio pair info is cleared from the G1 SCBA.

Next \rightarrow "Clearing Radio Pairing Info from the Kenwood Radio" in the next section.

Method 2 – Pair New Radio

Step 1. Pair a different Bluetooth Kenwood Radio with the G1 SCBA using the new radio's Bluetooth Audio Pairing Tag, as described in the "Pairing a G1 SCBA and Kenwood Radio" section.

Bluetooth audio pair info on the G1 SCBA is changed to the pair info for the new radio.

Next \rightarrow "Clearing Radio Pairing Info from the Kenwood Radio" in the next section.

Method 3 – Use a "Reset Bluetooth Pairing" Tag

If not yet created, create a **"Reset Bluetooth Pairing" Tag** in the A2 software, under "G1 Tags" tile \rightarrow "Special G1 Tags" \rightarrow expand "Reset Tags" list \rightarrow Select "Reset Bluetooth Pairing"

Step 1. Press & hold either of the green Control Module buttons to access the RFID mode display.

Step 2. Place the "Reset Bluetooth Pairing" Tag over the G1 Power Module RFID Target.

Bluetooth audio pair info is cleared from the G1 SCBA.

Next \rightarrow "Clearing Radio Pairing Info from the Kenwood Radio" in the next section.

Clearin Pa	ig Radio air	Clearing Radio Pairing Info from the KENWOC	OD VIKING Radio
Step 1.	Press a	nd hold Bluetooth button 💿 🥢 to enter the Bluetoot	h menu. Paired Devices
Step 2.	Select F	vaired Devices sub-menu.	GSCBA-57
Step 3.	Select t	he stored G1 SCBA device pair.	UNPAIR
Step 4.	Press U	NPAIR soft button.	
	Bluetoc	oth audio pair info is cleared from the Kenwood Radio.	

If not done already: Clear the pairing info from the previously connected G1 SCBA's pair history using the process described in in the previous section: "Clearing Radio Pairing Info from the G1 SCBA".



Troubleshooting

Торіс	Problem/Issue	Diagnosis	Possible Solution	Expected Result	
	Intermittent Audio	Facepiece may not be properly sealed	Adjust the facepiece until a proper seal is formed	Outgoing audio will function as expected	
			Power the portable radio on and off to reset the auto connect.	Radio will automatically connect to G1 and emit an audible indication for success.	
Audio	Incoming and/or outgoing audio from G1 is not working	Bluetooth icon is visible on the Radio	If power cycling the radio does not result in a successful connect, clear the G1 & Radio pairing history and re-pair the G1 & Radio.	G1 & Radio will now connect and audio will function as expected	
	Poor audio quality from G1 to Radio	G1 has Firmware SW 2.003 or prior SW version	Update G1 to Firmware SW 3.0 via A2 Software	Improved G1 outgoing audio quality	
	Bluetooth pairing information lost from G1	Pairing information is cleared when the battery G1 battery is removed. (When G1 "Bluetooth Pair Save" is not set to enabled.)	G1 with SW 3.0 or higher is configurable to retain pairing information across battery removals. Review instructions for "G1 SCBA Configuration Tag" and Bluetooth Paring Save settings.	Bluetooth pairing information will no longer be cleared on every battery removal.	
	Radio will not pair with G1	Bluetooth icon is NOT visible on the radio	Turn Bluetooth on, on the Radio.		
			Power the portable radio on and off to reset the auto connect.	Bluetooth icon is visible on	
			If power cycling the radio does not result in a successful connect, clear the G1 & Radio pairing history. Re-pair the G1 & Radio.	successful.	
Pairing		G1 is not Bluetooth enabled, icon on control module is gray.	Enable Bluetooth on the G1 using a G1 Configuration tag that enables Bluetooth.	Bluetooth icon on the G1 control module will be: <i>Red</i> = enabled/unpaired OR enabled/paired, not connected <i>Green</i> = enabled/connected	
		Radio is a not a Kenwood VIKING VP5000 or VP6000 Series (or Kenwood NEXEDGE NX- 5000 Series) Bluetooth Radio	G1 is compatible with Kenwood VIKING VP5000 or VP6000 Series (or Kenwood NEXEDGE NX-5000 Series) Bluetooth Radios.	To use G1 Bluetooth audio, pair with a Kenwood VIKING VP5000 or VP6000 Series Bluetooth Radio. (Or Kenwood NEXEDGE NX-5000 Series radio, and Refer to the NEXEDGE Series Pairing Guide).	
	Radio is paired to an incorrect G1	Radio and/or G1 was previously paired to a different radio or G1	Clear the pairing information on both the G1 & Radio. Pair desired G1 & Radio	Desired G1 and Radio will be paired together	