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Aetheric Radio Data Collection Procedure

The following procedure is used to collect diagnostic information for troubleshooting Aetheric Radios. This document is designed to be used in conjunction with the Aetheric Radio Data Collection Form.

Note 1: The Operator Control Unit (OCU) must be physically connected, via an Ethernet cable, to either the Ground Control Station (GCS) or vehicle radio.

Note 2: All radios must be turned on.

- 1. On the OCU, launch WinBox (C:\GC07\winbox.exe), click the "…" button. From the drop-down select the IP address of the radio (IP can be found on the radio label), then click the "Connect" button.
- 2. Record the serial number and IP address of the selected radio on the Aetheric Radio Data Collection Form.
- On the left side of the window, click the "Interfaces" tab. In the "Interface List" window, select an entry "Type" that starts "Wireless (Atheros ...".
- Record the "Name" (i.e., frequency; e.g., "w2.4GHz", "w900MHz") value on the Aetheric Radio Data Collection Form.
- 5. Double-click the selected entry.
- At the top of the "Interface <wfrequency>" window, click the "Wireless" tab. Record the following on the Aetheric Radio Data Collection Form:
 - Channel Width
 - Frequency

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ю	C# Safe Mode										Hide Pas	swords 📕	ē.			
Quick Set Interface List												8	X			
	Interfaces	Inter	Interface Ethernet EoIPTunnel IPTunnel GRETunnel VLAN VRRP Bonding LTE													
	Wireless	+ X C T														
	Bridge		Name /	Type	L2 MTU	Tx	Bx	Tx Pac	Bx Pac	Tx Drops	Rx Drops	Tx Errors	R.V			
	PPP	R	40+ether1	Ethemet	1526	48.3 kbps	1984 bps	5	3	0	0	0				
	Cudate		ether2	Ethernet	1522	0 bps	0 bps	0	0	0	0	0				
	Switch		ether3	Ethernet	1522	0 bps	0 bps	0	0	0	0	0	_			
	Mesh	R	dbm2.4GHz	Mesh Weeless (Alberts AR5413)	2290	46.1 Kops 1248 hos	D bos	3		0	0	0	_			
	IP D	DRA	eewds1	WDS	2290	416 bos	0 bps	1	0	ő	0	0				
	MPLS D	DRA	eewds2	WDS	2290	416 bps	0 bps	1	0	0	0	0	_			
	Bouting D	DRA	e-e-wds4	WDS	2290	416 bps	0 bps	1	0	0	0	0	_			
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 At the top of the "Interface <wfrequency>" window, click the "Tx Power" tab. Record the "Tx Power" value on the Aetheric Radio Data Collection Form.

C# Safe Mode		 Hide Passwords
Quick Set	Interface (w2.46Hz)	
Interfaces	Wireless Data Rates Advanced WDS Noteme Tx Power Current Tx Power Status Traffic	0K.
Wireless	Tx Power Mode: Al Lates ford	Cancel
Bridge	Ty Proser 12	Annh
PPP		Appy
Switch		Disable
Mesh		Comment
IP P		Torch
MPLS P		- Comp
Routing P	e de la companya de la	scan
System P	9	Freq. Usage
Queues		Align
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Log		Snooper .
Radius		orneepon
Tools D		Reset Configuration
New Terminal		Simple Mode
MetaROUTER		Stripte Prode
Make Supout ni		
Manual		
Exit		

- 8. Repeat steps 3-7 for each frequency of the radio selected during step 1. There can be up to 3 frequencies per Aetheric Radio.
- On the left side of the window, click the "Wireless" tab. For each entry in the "Wireless Tables" window, record:
 - Radio Name
 - Interface
 - Tx/Rx Signal Strength
 - Tx/Rx Rate

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5	0	Safe Mode												Hide Passwords	• 0
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	PPP		-	T	00 Kepel										
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	Mesh			40 Ae	thericVEH053	00.15.6D.68	64:83	w2.4GHz	04.36.38	yes yes	0.400	0 -52/-51		48.0Mbps/48.0Mbp	36
	IP	P		40 Ae	thericVEH97	00:15:6D:94	85:D3	w900MHz	04:32:38	yes yes	0.48	34/-33		54.0Mbps/54.0Mbp	10
	MPLS	1		Ac	thencVEH97	00.15.60.68	31:74	w2.4GHz	04.32.38	yes yes	0.48	3 -23/-24		54.0Mbps/54.0Mbp	13
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- 10. Close WinBox.
- 11. Repeat the entire procedure for each radio.

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