CANTCU – Remote Session Prerequisites

NOTE!

The remote session involves remote flashing of software.

Even though our success rate is 100% at the moment of writing these instructions, there are always certain risks involved in software updating/flashing. That being said, flashing is done on your own risk, CANformance Engineering cannot be held liable for any damage resulted from software update failing.

- 1. Download and Install the latest **CANTCU Configurator** PC Software (download link in <u>wiki</u>)
- 2. Open **CANTCU Configurator** PC Software and make sure you have a working connection between the PC and CANTCU. CANTCU needs to be powered with 12V power from the connector (it doesn't work solely on USB power). If there's a firmware update notification (either PC software or controller firmware), please update to latest version before continuing.





- 3. Make sure you have everything between transmission/CANTCU/ECU wired up correctly. You can verify this by checking that you see **CAN-bus Load** in CANTCU Configurator Realtime Values. To check, do the following:
 - A. In Configuration-menu, activate the correct Transmission Protocol and Car/ECU Protocol
 - B. Update configuration (press Update-button)
 - C. Restart CANTCU (Options -> Restart CANTCU)
 - D. Verify **CAN-bus Load** on CAN-buses:
 - All F-Series: CAN1 & CAN2
 - DCT E-Series: CAN1
 - ECU: CAN3

tions Configuration General-Inputs-Transmission Protocol Disabled \sim Analog Input Disabled Car/ECU Protocol Analog Input 2 Setup BMW DCT F-Series Analog Input 3 BMW 8HP F-Series 1st Gen BMW 8HP F-Series 2nd Gen LIN/Serial Protocol Analog Input 4 Setup BMW DCT E-Series BMW 8HP G-Series 2nd Gen Digital Input



If **CAN1/CAN2 load** shows zero, verify all connections on the CAN-bus and power supply/WUP to the transmission.

If CAN3 load shows zero, the ECU is not communicating correctly.



4. In the "Diagnostics" tab, you should be able to read fault codes/information/adaptations*. Get a readout at minimum from the "Information" section and take a screenshot or write down the information (VIN and software versions).

*not all transmissions have all diagnostics available

	nformation					
	-General –				-Adaptations —	
		R	Read			Read
	Inf	formation		Information rea		
(General			-1	Pressure ——	
<u>/</u>	Type:	F-Series	s 8HP45/70 1st Gen	ı	Clutch A	64
	VIN:	WBA8F32010K700398			Clutch B	-126
	Immo:				Clutch C	15
	HWEL:	022A	004.012.003		Clutch D	-89
	BTLD:	0C7C	012.068.001	/	Clutch E	8
	SWFL:	0A81	000.091.000		-Time	
	SWFL:	OCBF	091.043.000		Clutch A	-6
	□ Differenti	al —			Clutch B	-25

- 5. Download and install <u>TeamViewer</u> on your computer, it will be used for the remote session.
- 6. Send an email to us at support@canformance.net to schedule a remote session. Please provide the following information in the email:
 - Transmission information gathered in step 3 (VIN and software versions)
 - Exact transmission type (e.g. F-Series DCT M4)
 - CANTCU Serial Number
 - Car information:
 - Model & ECU used
 - o Gasoline/Diesel
 - o Differential Ratio
 - o Rear tire size (e.g. 255/40/18)

With the supplied information, we will make the necessary preparations to have everything go as smoothly as possible during the remote session.



- 7. Before starting the remote session, please go through the checklist below:
 - ✓ Make sure laptop is connected to a charger
 - ✓ Stable internet connection (LAN is preferred over WiFi)
 - ✓ Charger connected to car (Flashing process requires over 12.5V)
 - Disconnect any shifter and/or OBD-cable from CAN1 if present (we only want to have CANTCU and the transmission present on the bus while flashing)
 - ✓ Verify with CANTCU configurator that you have communication with the transmission (steps 2/3)

O. CANTCU Configurator v1.0.130 E	ieta	– 🗆 ×
File Logging Options		
Connected SN: 0769 HW: 1.5 BL: 1.1 SW: 1.0.130	Configuration Ceneral Transmission Protocol BMW 6HP F-Series 2nd G Car/ECU Protocol Transmission Node Car/ECU Protocol TGW Emulation Mode Car/ECU Protocol TGW Emulation Mode	Debug Debug Value 1 0 Debug Value 2
C onfiguration	LIN/Serial P Settings Vehicle Identification Number WBS3R920901234567 ZGW IP Address / Port 192.168.1.229 / 6801	0 Debug Value 3 0 Debug Value 4
†‡† Tuning	Default Drive Wheel Siz Car D r Data	Debug Value 5
Realtime	ZGW Emulator V1.0 Started Speed Cor Simulate Whee	Update
A Diagnostics	Supply Vol % ICU Gear 1 ICU Lic Mode U % CAN1 Load 15 % ICU Gear 1 ICU Dit Mode U % CAN3 Load 0 % Shift In Progress 0 ICU Oil Temp 40 % % CAN3 Load 0 % TCU Intervention 0 DS Calc RPM 0 RPM % RT_DEBUG_1 ICU KPM target 0 RPM 0 RPM 0 RPM % RT_DEBUG_2 0 Target forque 1024 Nm CU Clear Ratio 0 RT_DEBUG_3 0 Shiftcut 0 % ICU Gear Ratio 0	altime Record
CRNO.TCU Transmission Controller GUI Version: 1.0.130 Beta	RI_DEBUG_6 0 shift Time 0 ms Clutch Slip 0 %	

