

Toolkit setup & Application download for MI-21 system

Project Number – XXXX Report – XXXX

INDUSTRIAL CONTROLS GROUP WOODWARD GOVERNOR COMPANY FORT COLLINS, COLORADO, USA

PROPRIETARY



Document Number

TITLE

Toolkit setup for MI-21 system

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REV	DRAWING RELEASE OR BRIEF DESCRIPTION OF CHANGE	BY	DATE
1	1 st Draft	JSK	22 Oct 2020
2	2 nd – Update CAN ID, Password implemented and WAPP donwload	JSK	09 FEB 2021



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Toolkit setup for MI-21 system

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1. OVERVIEW

The purpose of this document is defined what communication setup need to MI-21 system use SECM70 with the Tookit. It can be support XCP by CAN communication. SECM70 controller can be available CAN1 and CAN2 channel. CAN1 is use for J1939 communication, CAN2 use for xCP for toolkit t communication

This documents also have how can set up CAN communication, how can download application program and setting files.

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2. COMMUNICATION SET UP

2.1 Communication hardware set up

2.1.1 Preparations

CAN communication Hardware - Kvaser CAN communication module

• Woodward P/N: 5404-1259, ASMINTR01300, 1 CHANNEL USB2CAN

Toolkit - calibration and monitoring program

• Http://www.woodward.com

2.1.2 Wire schematic for Master / Slave CAN communication



BUS SHOULD BE TERMINATED AT EACH END OF THE CAN BUS AS REQUIRED BY J1939 STANDARD



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2.1.3 Toolkit Preparation

• ToolKit 5.6.318.3

💥 About Woodward ToolKit	×
<mark>※</mark> Woodward ToolKit 5.	6
Copyright © 2005-2019 Woodward. All rights reserved.	
Revision: 3	
Build: 318	
License Information:	Verify License
Developer License	
Warning: This computer program is protected by copyright laws and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.	<u>o</u> ĸ

2.1.4 Application file downloading

SECM70 required application software download for update application software

- WTOOL
- SID
- DLL

2.1.5 CAN set up for communication

Channel	ХСР	Baud Rate	Command ID	Response ID	Remarks
CAN1	XCP (1DAQ)	250K	188C0BF9	188BF90B	Same as Boot mode ID
CAN2	XCP1 (6DAQ)	500K	188C0CF9	188BF90C	Same as Green module ID
0,	XCP2 (1DAQ)		188C0CFA	188BF90E	No Change



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2.1.5.1 GREEN MODULE and USED MOUDLE OF SECM70

If you have the Green module of SECM70, load application follows by 2.1.5.2, if you have normal SECM70 it will follow 2.1.5.3. because same SECM70 has two different CAN2 Channel

2.1.5.2 Green module (Factory version)

Nothing has been loaded Software application after factory shipment is GREEN MODULE

In the case of green module, software downloading is according to the following method.

SECM 70 - 1751-6772, SECM70 MI-1702 CONTROL MODULE - 5642 DEV

- CAN channel CAN bus 2
- Baud Rate 500k baud
- Command: 188C0CF9
- Response: 188BF90C

Open Toolkit program and select WTOOL files "MI07_Main_V0_10_xxx.wtool.

	Tools	
MI07_Main_v0_10_xxx.vtool MI07_Main_v0_1_xxx.vtool APECS4801_Original.vtool APECS4800.vtool	File Name: Tool Name Version: Description	Z\ECUFiles\2020-10-22\ECUFiles\WTools\MI07_Main_v0_10_ooc.wtoo MI07-SECM70 Main Tool v0.1002 Single XCP Connection >> S00kBit Command ID: 188C0CF9 Resonn
		188:00CF9 Response ID: 1888F90C Silve XCP Connection >> 250KBi Command ID: 188:00F9, Response ID: 1888F90D
🗋 New Tool 🎦 Open Tool		
🗅 New Tool 🎯 Open Tool	Settings	
New Tool Open Tool	Settings Details	
New Tool Open Tool APEC54800 DBW-20200917,2350rpm,final_final.wset APEC54800 DBW-20200915,phase3.wset 2016922 331392 EU IST DI Duro wset	Settings Details File Name- Notes	D:\MI\HMC24_SECM70_BuildRI26_200819_LSigov_ProdCat_StageY_v8.
New Tool Poen Tool APEC54800 DBW-20200917_2350rpm_final_final.wset APEC54800 DBW-20200915_phase3.wset 20160822_331918-PU_STO_01_Prow.wset 20160822_331918-PU_STO_01_Prow.wset	Settings Details File Name: Notes:	D:\M\\HMC24_SECM70_BuildRI26_200819_LSigov_ProdCat_StageV_v8: Could not find a part of the path 'D'\MI
New Tool Open Tool APEC54800 DBW-20200917,2350rpm_final_final.wset APEC54800 DBW-20200915,phase3.wset 2016022,343194-U_STD()_tpyno.wset 2016022,343194-U_STD()_tpyno.wset BMC24,Atche,DL,Res/_initial_0223.wset BMC24,Atche,DL,Res/_initial_023.wset BMC24,Atche,DL,Res/_initial_023.wset BMC24,Atche,DL,Res/_initial_0223.wset BMC24,Atche,DL,Res/_initial_023.wset BMC24,A	Settings Details File Name Notes:	D:\MI\HMC24_SECM70_BuildR26_200819_LSigov_ProdCat_StageV_v& Could not find a part of the path 'D:\MI \HMC24_SECM70_BuildR26_200819_LSigov_ProdCat_StageV_v&.set'.
New Tool Open Tool APEC54800 DBW-20200917,2350pm, final_final.wset APEC54800 DBW-20200915, phase3.wset 20160822,343194Fe-U_ST0.01_Dyno.wset 20160822,343194Fe-U_ST0.01_Dyno.wset HMC24_Atech_ISOL_Red_initial_0828.wset HMC24_SECM70_BuildRI26_200819_LSIgov_ProdCat_StageV_v&wset	Settings Details File Name Notes:	D:\M\\HMC24,SECM70,BuildRI26,200819_LSigov,ProdCat,StageV_v8.v Could not find a part of the path 'D:\MI \HMC24,SECM70,BuildRI26,200819_LSigov_ProdCat,StageV_v8.wset'.
New TooL. Open TooL. APECS4800 DBW-20200917,2350rpm_final_final.wset APECS4800 DBW-20200915 phase3.wset 2016022.3139LF8-U_STD_01_Pyno.wset 2016022.3139LF8-U_STD_01_Dyno.wset HMC24_Atech_EOL_Rev0_initial_0823.wset HMC24_SECMT0_BuildR025_200819_LSigov_ProdCat_StageV_v8.wset	Settings Details — File Name Notes:	D:\MI\HMC24_SECM70_BuildR26_200819_LSigov_ProdCat_StageV_v8. Could not find a part of the path '01,MI \HMC24_SECM70_BuildR26_200819_LSigov_ProdCat_StageV_v8.wset'.
New Tool Depen Tool	Settings Details File Name Notes	D:\M/I:HMC24_SECM70_BuildRI26_200819_LSigov_ProdCet_StageV_v8. Could not find a part of the path: D:\MI \HMC24_SECM70_BuildRI26_200819_LSigov_ProdCat_StageV_v8.wset.
New Tool. Open Tool APECS4800 DBW-20200917,2350rpm,final_final.wset APECS4800 DBW-20200917,2350rpm,final_final.wset 20160822,3A138LF8-U_5TD_0T_Dyno.wset 20160822,3A138LF8-U_5TD_0T_Dyno.wset HMC24_Atech_F0L_Revg_initial_0833.wset HMC24_SECM70_BuildR026_200819_LSigov_ProdCat_StageV_v&wset	Settings Details File Name: Notes:	Dr.VMIVHMC24_SECM70_BuildRi26_200819_LSigov_ProdCat_StageV_v& Could not find a part of the path '07.Mil VHMC24_SECM70_BuildRi26_200819_LSigov_ProdCat_StageV_v&wset'.
New Tool. Open Tool. APECS4800 DBW-20200917,2350rpm_final_final.wset APECS4800 DBW-20200915,phase3.wset 2016022,34139.Fe-U_STD_01_Pyno.wset 2016022,34139.Fe-U_STD_01_Pyno.wset HMC24_Atech_EOL_Rev9_initial_0829.wset HMC24_SECMT0_BuildR025_200819_LSigov_ProdCat_StageV_v8.wset	Settings Details File Name Notes	D:\MI\HMC24_SECM70_BuildR26_200819_LSIgov_ProdCat_StageV_v8. Could not find a part of the path '0'\MI \HMC24_SECM70_BuildR26_200819_LSIgov_ProdCat_StageV_v8.wset'.
New Tool	Settings Details File Name Notes	D:\MI\HMC24_SECM70_BuildRI26_200819_LSIgov_ProdCat_StageV_v8 Could not find a part of the path 'D'\MI \HMC24_SECM70_BuildRI26_200819_LSigov_ProdCat_StageV_v8.wset'.

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Click drop down menu to "Connection" and connect to command ID **188C0CF9** and response ID **188BF90C**

% M07_Main_v0_10	Loocwtool - Woodward TeoRGt		-	σ	×
Elle View Device	Settings Icols Help				
i 🗅 🥔 🖬 🔛	Connect & Disconnect				
	Select a network:	MI07-SECM70 Main Tool			
	Network	Version v0.1,002			
	Kvaser Leaf Light v2 #0 (Channel 0)	and ID: 188C0CP9, Response ID: 1888F90C Master XCP Connection >> 25MBx, Command ID: 188C0CP9, Response ID: 1888F90C Save XCP Connection >> 25MBx, Command ID: 188C0OP9, Response ID: 1888F90D			
	Kivaser Virtual #0 (Channel 0)				
	Kvaser Virtual #0 (Channel 1)				
	Protocol XCP	- Interest			
	Baud Rate: Baud_500KBit ~	NEW RELEASE			
	Check the devices to connect to:	(ESS Candidate			
	Alias Command ID Response ID	Cumulauto			
	188C08F9 188C08F9 1888F908				
	188C00F9 188C00F9 1888F900				
	188C0CFA 188C0CFA 1888F90E				
	188C0CF1 188C0CF1 1888F10C				
	Extended Slave Identifier (hex)				
	Command:				
	Response: Add				
	Always connect to my last selected network.				
	J Connect				
Disconnected					

MI_1702_testcode_000.sid file notification popup, Green module has a special SID file from manufacture, so this notification mean is it has been loaded factory test software.

🌾 Тоо	IKit ×			
Unable to locate the correct SID file for device applie MI_1702_testcode_000				
	Click Browse to locate the SID file.			
	<u>B</u> rowse <u>C</u> ancel			

It is required new application software download for MI-21, drop down menu and click "Load Application"

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TLE Toolkit setup for N	II-21 system	SHEET 8 OF 31 INFORMATION IN THI CONFIDENTIAL AND TO WOOD	REV 0 S DOCUMENT IS PROPRIETARY WARD.
Mi07. Main s0_10 yxx.wtool - Woodward ToolKit			-
Item Verve Settings Tools Help Ctri+N Open Tool. Ctri+O Close Tool Ctri+S	MI07-SECM70 Main Tool		
Losd Application 1 ZMECUFiels/2020-10-22/ECUFiels/WTools/MM07_Main_v0_10_socnetool 2 CMECUFiels/WTOOLS/M07_Main_v0_1_socnetool 3 CMECUFiels/WTOOLS/APECS4000_mtool 4 CMECUFiels/WTOOLS/APECS4000_mtool Exit	HEIN RELEASE Candidate		



Selected target .WAPP files that latest version of application files you have. And click next

Disconnected



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Open					×
← → • ↑ 📙 <	Cals	> MI > SECM70 > MI07_V19_SECM70_05192	.0A ∨ Õ	Search MI07_V19_SECM	и70_05 , р
Organize 👻 New	folder			8== -	
📙 ВОМ	^	Name	Date modified	Туре	Size
MENU		MI07_V19_60M2TDG_RJ26.wapp	8/6/2020 12:41 AM	WAPP File	482 KB
Wiring Harness					
💻 This PC	н.				
3D Objects					
Desktop					
B Documents					
Downloads					
Music					
Pictures					
🛃 Videos					
L OSDisk (C:)					
		·			
•	ile nan	MI07_V19_60M2TDG_RJ26.wapp	~	Application Files (*.wa	app, ^.scp, ~
				Open	Cancel

Load Application	
Application File Selection	
Select the application file to load.	- Con
Click 'Browse' to select the file.	
C:\ECUfiles\Cals\MI\SECM70\MI07_V19_SECM70_051920A\MI07_V19_60M2TDG_RJ26.wapp	Browse
Set selected directory as default directory	
Cancel	<u>N</u> ext >



Selected command ID 188C0CF9 and response ID 188BF90C

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Toolkit setur	Toolkit setup for MI-21 s					INFORMAT CONFIDE	ATION IN THIS DOCUMENT I ENTIAL AND PROPRIETARY TO WOODWARD.	
Load Application								
Network Selection Select the network to conne	ct with.]	
Select a network: Network TCP/IP % Kvaser Leaf Light v2 #0 (Cha % Kvaser Vitual #0 (Charnel 0)	nnel 0) Cł	rotocol: aud Rate: theck the devices	XCP Baud_500KBit to connect to:			~		
Kvaser Virtual #0 (Channel 1)	A	Alias	Command ID	Response ID				

Extended Slave Identifier (hex)

Command:

Response:

188C0BF9

188C0DF9

188C0CFA 188C0CF1

188BF90B

188BF90D 188BF90C

188BF90E 188BF10C

Add

Cancel Next >

Γ

>

<

Alias

 188C0BF9

 188C0DF9

 188C0CF9

 188C0CFA

 188C0CF1

Load Application	ı				
Select Device Select the c	evice to work with and press N	Vext.			
Device	Cintus				
Device	Status				
				<u>C</u> ancel	<u>N</u> ext >

Start to WAPP files download. DO NOT KEY OFF / POWER OFF ON SECM70 DURING SOFTWARE DOWNLOAD.

Load Application	
Loading Application Please wait	
Connecting on Kvaser Leaf Light v2 #0 (Channel 0).	
Writing to Memory	
25 KB of 492.604 KB	
	Cancel Next >

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Download completed, when successfully download completed, there is need to KEY OFF for finished SW download procedure.





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2.1.5.3 Normal SECM70 SW download

2.1.5.4 . WAPP and WSET files download

A WAPP file is a file that contains basic software information and structure. WSET is a file that has its own settings for each engine.

Sometimes WAPP files and WSET files are combined and distributed, and sometimes distributed separately.

When the above two files are distributed separately, the WAPP file and the WSET file must be downloaded in twice.

2.1.5.4.1 WAPP download

Open Toolkit program and select WTOOL files "MI07_Main_V0_10_xxx.wtool.



Click drop down menu to "Connection" and connect to selected command ID **188C0CF9** and response ID **188BF90C**



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Protocol: X Baud Rate: B Check the devices to co Alias Con 188C0CF9 1880 188C0CF9 1880 188C0CF1 1880 Extended Slave Identi Command: Command:	fessional H fessional H Channel 0) Channel 1) CP	IS/H #0 (Channel 0) IS/H #0 (Channel 1)									
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Check the devices to co Alias Con ☑ 188C0CF9 1880 ☑ 188C0BF9 1880 ☑ 188C0DF9 1880 ☑ 188C0CFA 1880 ☑ 188C0CF1 1880 ☑ teended Slave Identi ☑ Command:	Baud Rate: Baud_500KBi			~							
Alias Con ✓ 188C0CF9 188 □ 188C0BF9 188 □ 188C0DF9 188 □ 188C0CFA 188 □ 188C0CFA 188 □ 188C0CFA 188 □ 188C0CF1 188 □ 188C0CF1 188 ■ Command: ✓	onnect to:										
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☐ 188C0BF9 1880 ☐ 188C0DF9 1880 ☐ 188C0CFA 1880 ☐ 188C0CFA 1880 ☐ 188C0CF1 1880 Ēxtended Slave Identi ☑ Command: ☑ Command:	COCF9	188BF90C									
188C0DF9 1880 188C0CFA 1880 188C0CF1 1880 188C0CF1 1880 Extended Slave Identi Command: Command:	COBF9	188BF90B									
188COCFA 1880 188COCF1 1880 textended Slave Identi Command:	CODF9	188BF90D									
188C0CF1 188 Extended Slave Identi Command:	COCFA	188BF90E									
Extended Slave Identi	COCF1	188BF10C									
Extended Slave Identi											
Command:	ifier (hey)										
	(nex)										
I✓ Response:	<u> </u>			Ad							
Always connect to											
	my last sele	cted network.									

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It is required new application software download for MI-21, drop down menu and click "Load Application"

File	View Device Settings Tools Help		
	New Tool	Ctrl+N	
2	Open Tool	Ctrl+O	
	Close Tool		
H	Save Tool	Ctrl+S	Version v0.1.002
	Save Tool As		(Allis, Command ID: 18800079, Response ID: 1888F900 Masser XCP Connection >> 250kBix, Command ID: 18800179, Response ID: 1888F900 Stave XCP Connection >> 250kBix, Command ID: 18800199, Response ID: 1888F900
۶	Load Application		
	1 Z:\ECUFiles\2020-10-22\ECUFiles\WTools\MI07_Main_v0_10_xxx.wtool		
	2 C:\ECUfiles\WTOOLS\MI07_Main_v0_1_xxx.wtool		
	3 C:\ECUfiles\WTOOLS\APECS 4801_Original.wtool		The second se
	4 C:\ECUfiles\WTOOLS\APECS4800.wtool		I WEAR REFERENCE
	Exit		
			Candidate
Disco	nnected		



Selected target .WAPP files and click next

W -	WC	0	D	W	A	R	D
	Indust	rial C	ontr	ols			

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Open					×
← → × ↑ <mark> </mark> «	Cals	MI > SECM70 > MI07_V19_SECM70_051920	ŭ ~ A	Search MI07_V19_SECN	170_05 , P
Organize 👻 New f	older			800 -	□ 0
ВОМ	^	Name	Date modified	Туре	Size
MENU		MI07_V19_60M2TDG_RJ26.wapp	8/6/2020 12:41 AM	WAPP File	482 KB
Wiring Harness					
This PC					
3D Objects					
Desktop					
Documents					
Downloads					
Music					
Pictures					
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L OSDisk (C:)					
				A 10 10 100 100	
H	ie nam	e: MI07_V19_60M21DG_K026.wapp	~	Application Files (".wa	pp, ".scp, ~
				Open	Cancel

Application File Selection Select the application file to load. Click 'Browse' to select the file. C\:CL'ECUFiles\Cals\MI\SECM70\MI\07_V19_SECM70_051920A\MI\07_V19_60M2TDG_RJ26 wapp Browsed Set selected directory as default directory	
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C:\ECUfiles\CalsMI\SECM70\MI07_V19_5ECM70_051920A\MI07_V19_60M2TDG_RJ26.wapp Browse	
Set selected directory as default directory	ə
Cancel Next :	>

Load Application	
Restore Settings	
What do you want to do?	
What do you want to do with the device's settings?	
Restore the device's current settings after loading the application.	
The device's current settings may be lost.	
	Cancel <u>N</u> ext >



TITLE

Toolkit setup for MI-21 system

SHEET 16 OF 31 REV 0 INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROPRIETARY TO WOODWARD.

Load Application				
Network Selection Select the network to connect with			C	
				W .
Select a network:	Protocol:	XCP		~
STCP/IP	Baud Rate:	Baud_500KBi		\sim
Kvaser USBcan Professional HS/H #0 (Channel 0) Kvaser USBcan Professional HS/H #0 (Channel 1)	Check the devices	to connect to:		
	Alias Alias 188C0BF9 188C0DF9 100C0CF9 188C0CFA 188C0CF1	Command ID 188C0BF9 188C0DF9 100C0CF9 188C0CFA 188C0CF1	Response ID 188BF90B 188BF90D 188BF90C 188BF90E 188BF90E 188BF10C	•
< >>	Extended Slave	Identifier (hex) nand: onse:		Add
			<u>C</u> ancel	<u>N</u> ext >

Load Application	
Select Device Select the device to work with and press Next.	
Device Status -188C0CF1 Connected	
Load Application	QancelNext >
Loading Application	
Loading Application Please wait Connecting on Kysser Leaf Light v2 #0 (Channel II).	
Loading Application Please wait Connecting on Kraser Leaf Light v2 #0 (Channel 0). Writing to Memory 25 KB of 492 604 KB	

Download completed, when successfully download completed, there is need to KEY OFF for finished SW download procedure. DO NOT KEY OFF / POWER OFF ON SECM70 DURING SOFTWARE DOWNLOAD.

WOODWARD Industrial Controls	Toolkit setup manual	Document Num	per
TITLE		SHEET 17 OF 31	REV 0
Toolkit setup for M	INFORMATION IN THIS CONFIDENTIAL AND TO WOODV	S DOCUMENT IS PROPRIETARY VARD.	

₩ MI21_Main_v1_J1939Tx.w	tool - Woodward ToolKit							- ø ×
	Biagnostic - ORD M	opitor		Connect Sconnect				
HOME	DIAGNOSTIC. OBD DIAG			Select a network:				
NAVIGATION	FAULT THRESHOLD Fault Threshold Config		O2 Active	Network TCP/IP Waser USBcan Professional HS/H #0 (Channel 0)	URENCE COUNTER			
FAULT LOG	APP1_APP2_Max_Deviation	Percent	Gas024	Kvaser USBcan Professional HS/H #0 (Channel 1) Kvaser Virtual #0 (Channel 0)	inceCount			
MIL .	ECT_COLD		GasO2L GasO2E	Y Kvaser Virtual #0 (Channel 1)	enceCount			
Switchable Panel	ECTSensorRangeHiThesh	degC	LiquidO		seCount			
FuelType	EngineShutdownDelayTime	5	LiquidO		eCount			
	EngSpeedLowOilPress	RPM	LiquidO		Count			
	ETC_I_MIN	mA	O2 Time N		renceCount			
	ETC_OC_MIN		Gas02N		peCount			
	IAT_STUCK		Gas02L		ceCount			
	MAP_IR_HI	kPa	Gas02F	Protocol: XCP ~	eCount			
Engine Speed	MAP_IR_LO	kPa	LiquidO	Baud_500KBit ~	eCount			
rpm	MAP_IR_TPS_CL		LiquidO	Check the devices to connect to:	ccurenceCount			
MAP	MAP_IR_TPS_OP		LiquidO:	Alias Command ID Response ID	urenceCount			
KP3	MAP_STUCK	kPa		188C08F9 188C08F9 1888F908	renceCount			
с	MAP_TPS_STUCK			100C0CF9 100C0CF9 1888F90C	peCount			
Engine Hour	StartUpOilSwDelay	8		Extended Slave Identifier (hex)	peCount			
Hour	TPS1_TPS2_Max_Deviation	Percent		Command:				
				Response: Add				
				Always connect to my last selected network.				
				<i>J</i> ⊆onnect				
					_			
Disconnected								

When you request communication with SECM70, there is required PASSWORD.

潊 Se	ecurity Login	×
9	Device MI07_V19_60M2TDG_RJ42-188C0CFA is a secured device. Please log in.	ł
	Security Level: Level 1	
	Password:	
	Log In <u>C</u> los	ie -

First, you can connect by selecting the appropriate level for each field engineer level 1, laboratory level 2, etc. and then entering the appropriate password.

WOODWARD Industrial Controls	Toolkit setup manual	Document Number	
TITLE		SHEET 18 OF 31	REV 0
Toolkit setup for M	INFORMATION IN THI CONFIDENTIAL AND TO WOODV	S DOCUMENT IS PROPRIETARY VARD.	

💥 Security Login								
Device MI07_V19_60M2TDG_RJ42-188C0CFA is a secured device. Please log in.								
Security Level:	Level 1 Y							
	Level 1							
Password:	Level 2							
	Level 3							
	Level 4							
	<u>L</u> og In <u>C</u> lose							
% Security Login		×						

×	Security Login		\times
d	Device MI07_V device. Please	19_60M2TDG_RJ42-188C0CFA is a secured log in.	
	Security Level:	Level 2 v	
	Password:	····· ^	
		<u>L</u> og In <u>C</u> lose	

After completing security login, communication is activated, and you can check the contents of parameters.

A M21/Mary/1959K.wtol - Woolaad Bolit Die View Device Settings Joels Help □ → W M M , (2000)	* _ J Connect 🖌 Disconnect _				- 0 X
	MI-21 MOBILE INDUST	TRIAL ENGI	NE CONTROL S	SYSTEM N TOOL	
	Con Connectation (Anno Con Connectation (Anno Connect B) : 1886-07 Receive C) : 1886-07 Connectation C) : 1886-07 Connectation C) : 1886-07 Connectation C) : 1886-07 Connectation C) : 1886-07 Receive C) : 1886-07 Receive C) : 1886-07	Anticolomi and Aphication System Character Project all Anticolomic anti- Cathorism Character Controlling Controlling Controlling	550000_5000	International California Teal	
Connected on Kvaser USBcan Professional HS/H #0 (Channel 1) 😸 Details					



2.1.5.4.2 WSET download

It is required new setting files for MI-21, drop down menu and click "Load Setting File to Device"

	Disconnet LE INDUST 17,2350pm, final, final inset 15, phata-lanet DEV 10,0 (Dynamet	RIAL ENGINE CONTROL S' ELOPMENT CALIBRATION	YSTEM N TOOL	
e Diraking Strating Carlon Car	IspeC v8 used CART /Keaser Cart Basir Basir Basir Basir Stok / XCP1 (Nesterce 1) CART /Keaser Cart Basir Basir Basis Stok / XCP1 (Nesterce 2) CART / Keaser Cattler Basir Basis Stok / XCP2 (Nesterce 2) Ceemand ID 1980/cfca Receive ID 1980/cfca CART / Keaser Cattler Basir Basis Stok / XCP3 CART / Keaser Cattler Basir Basis Stok / XCP3 Cart Cart / Keaser Cattler Basis Bas	APPLICATION INFO Application System ID SECMID_Single PeaketD 14 ID presetUid 6 Software ID M07_V18_04276 Calibration Deals Collection Deals Software ID M07_V18_042705_4/25 Calibration M07_V18_042705_4/25 CorrentSizees Connectizies Docase1407_V	WTOL, KIPO Developmet Calibration Toal Review: Y 10 Castidate Toalst verson 5.8.3 Ball 31 required Cydraede Ut 1930 1930 (spiny) Compatible With RW 19 Review For Turks Ball Update	
Network Device MOT, VH & GANCTED, ROS-18CCCF1	Teol Devices Device1	Application M - MOT, V19, 60ACTOG, 2026	Setus Connected	
Consistent on Known and Links 2 49 (Channel 19) Statester	📈 Disconn	👷 Log In 🔒 Log Out 👔 Save Value	5	

Selected target .WSET files and click next

Load Settings File to Device	
Settings File Selection	
Select the settings file to load.	
Click 'Browse' to select the file.	
	Browse
Set selected directory as default directory	
	Cancel Next >

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Toolkit setup for M	INFORMATION IN THIS CONFIDENTIAL AND TO WOODV	S DOCUMENT IS PROPRIETARY VARD.	

Open				×
\leftarrow \rightarrow \checkmark \uparrow \square \ll OSD	isk (C:) → ECUfiles → Cals → MI → SECM70 → 🗸 🗸	Sear	ch SECM70	<i>م</i>
Organize 🔻 New folder			III 🔻 🗌	
This PC	Name		Date modified	Туре ^
3D Objects	MI07_V19_SECM70_051920A		9/22/2020 8:31 AM	File fo
Desktop	🙀 HMC24_Atech_EOL_Rev1		8/20/2020 3:47 PM	ToolKi
	剜 HMC24_Atech_EOL_Rev2		8/20/2020 8:57 PM	ToolKi
Develoada	🙀 HMC24_Atech_EOL_Rev3		8/21/2020 1:33 PM	ToolKi
- Downloads	1 HMC24_Atech_EOL_Rev4		8/21/2020 1:47 PM	ToolKi
J Music	HMC24_Atr-t- COL BC		8/24/2020 4:39 PM	ToolKi
Pictures	HMC24_At Size: 2.67 MB		8/25/2020 11:10 AM	ToolKi
Videos	MMC24_At Date modified: 8/21/2020 1:47 PM		8/25/2020 2:57 PM	ToolKi
SDisk (C:)	🙀 HMC24_Atech_EOL_Rev7_0826		8/26/2020 5:39 PM	ToolKi
🛖 tomshare (\\mal	🙀 HMC24_Atech_EOL_Rev8_0827		8/27/2020 3:44 PM	ToolKi
🚽 tomshare (\\mal	HMC24_Atech_EOL_Rev9_initial_0829		8/28/2020 8:21 AM	ToolKi
tomshare (\\mai	🚀 HMC24_Atech_Rev9_Final_0829		8/28/2020 5:55 PM	ToolKi 🗸
	< Comparison of the second sec			>
File nar	me: HMC24_Atech_EOL_Rev4	~ Dev	rice Settings (*.wset)	\sim
			Open Car	icel

Check CAN2 Channel communication

Load Settings File to Device			
Select Device			٤Ì
Select the device to work with and pres	s Next.		
Device	Status		
MI07_V19_60M2TDG_RJ26-188C0CF1	Connected		
L			
			_
		Cancel <u>N</u> ext >	
Device MI07_V19_60M2TDG_RJ26-188C0CF1	Status Connected	<u>Cancel</u> <u>Next</u> >	

Load Settings File to Device	
Loading Settings	
Please wait	
Settings File: C:\ECUfiles\Cals\MI\SECM70\HMC24_Atech_EOL_Rev4.wset	
Loading Settings	
Processing 592 of 2730 settings.	
	Cancel Next >

Download completed, when successfully download completed, there is need to KEY OFF for finished SW download procedure. DO NOT KEY OFF / POWER OFF ON SECM70 DURING SOFTWARE DOWNLOAD.

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TITLE		SHEET 21 OF 31	REV 0
Toolkit setup for M	I-21 system	INFORMATION IN THIS CONFIDENTIAL AND TO WOODV	S DOCUMENT IS PROPRIETARY VARD.

inished					
Devic	e settings loaded succ	essfully.			
					Close
% Secu	rity Login				×
	Device MI07_V levice. Please	(19_60M2TD) log in.	G_RJ42-1880	COCFA is a s	ecured
Se	curity Level:	Level 2		~	
	Password:	•••••		^	

Connected on Kvaser Leaf Light v2 #0 (Channel 0) 🛛 🙀 Details...

👻 🛫 i 🖉 Connect 🦼 Disconnect 🖕



- ø ×

WOODWARD Industrial Controls	Toolkit setup manual	Document Num	ber
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Toolkit setup for MI-21 system

2.1.5.5 . Only WAPP download

WAPP files and WSET files are combined and distributed. When the only one WAPP files are distributed, the WAPP be downloaded in ones.

2.1.5.5.1 WAPP download

Open Toolkit program and select WTOOL files "MI07_Main_V0_10_xxx.wtool.

‰ Woodward ToolKit File View Device Settings Tools Help	- D X
T I	ools
MICT, Main, v0, 10, poxotool MICT, Main, v0, 10, poxotool APECS 4801, Original wtool APECS4800, wtool	Detais Tiel Name: ZYECUFiley.2020-10-221ECUFiley.WT0ols/MI07_Main_v0_10_x0x.wtool Tool Name: MI07-SECKP0 Main Tool Version: Vo.1002 Description: Single XCP Connection >> 5008in, Command ID: 18820CF9, Response BISB90C (Master XCP Connection >> 250kin, Command ID: 18820CF9, Response ID: 1888F90C Slave XCP Connection >> 250kin, Command ID: 188C0DF9, Response ID: 1888F900
C Se	ttings
APECS4800 DBW-20200917, 2350rpm, final, final, wet APECS4800 DBW-20200915, phase3.wet 20168022, 3A139LFB-U, STD, 01, Dyno.wet 20168022, 3A139LFB-U, STD, 01, Dyno.wet HMC24, Atech, FOL, Rev9, initial, 0829-wset HMC24, SECM70, BuildR026, 200819, LSIgov, ProdCat, StageV, v8.wset	Details Tel: Name: D:MIVHMC24_SECM70_BuildRI26_200819_LSIgov_ProdCat_StageV_v8.wset Notes: Could not find a part of the path 'D:MI VHMC24_SECM70_BuildRI26_200819_LSIgov_ProdCat_StageV_v8.wset'.
Sew Settings from Device	

Click drop down menu to "Connection" and connect to selected command ID **188C0CF9** and response ID **188BF90C**



TITLE

Toolkit setup for MI-21 system

SHEET 23 OF 31 REV 0 INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROPRIETARY TO WOODWARD.

	etwork:						
Network	:						
🗞 TCP/IP							
Kvaser USBcan Professional HS/H #0 (Channel 0)							
🟆 Kvaser USBcan Professional HS/H #0 (Channel 1)							
Yvaser Virtual #0 (Channel 0)							
🛫 Kvase	er Virtua	11 #0 (C	hannel 1)				
Protocol:		X	СР			\sim	
Baud Rate: Baud		aud_500KBit	t		\sim		
Check the	device	is to co	onnect to:				
Alias		Con	nmand ID	Response ID			
2 18800	DCF9	1880	COCF9	188BF90C			
10000	ODEO	100/	ODEO	40005000			
188C	JBF9	1880	LUDER	188RF90R			
188C0	DBF9 DDF9	1880	CODF9	1888F908 1888F90D			
188C0	DDF9 DDF9 DCFA	1880 1880 1880	CODF9 CODF9 COCFA	1888F908 1888F90D 1888F90E			
 188C0 188C0 188C0 188C0 188C0 188C0 	DDF9 DDF9 DCFA DCF1	1880 1880 1880 1880	CODF9 CODF9 COCFA COCF1	1888F908 1888F90D 1888F90E 1888F10C			
188C0	DDF9 DDF9 DCFA DCF1	1880 1880 1880 1880	CODF9 CODF9 COCFA COCF1	1888F908 1888F90D 1888F90E 1888F10C			
188C(1	DDF9 DDF9 DCFA DCF1	1880 1880 1880 1880	CODF9 CODF9 COCFA COCF1	1888F90B 188BF90D 188BF90E 188BF10C			
188C(1	DDF9 DDF9 DCFA DCF1 Slave	1880 1880 1880 1880 1880	CODF9 CODF9 COCFA COCF1 fier (hex)	1888F90B 188BF90D 188BF90E 188BF10C			
188C(1	DEF9 DDF9 DCFA DCF1 Slave Comr	1880 1880 1880 1880 1880	COCFA COCFA COCF1	1888F90B 1888F90D 1888F90E 188BF10C			
Extended	DDF9 DDF9 DCFA DCF1 Slave Comr Respo	1880 1880 1880 1880 1880 1880	CODF9 COCFA COCF1	1888F90B 1888F90D 1888F90E 1888F10C		Add	
188C(1	DDF9 DDF9 DCFA DCF1 Slave Comr Respo	1880 1880 1880 1880 1880 1880 1880	CODF9 CODF9 COCFA COCF1	1888F90B 1888F90D 1888F90E 1888F10C		Add	
188C0 188C0 188C0 188C0 188C0 188C0 F	DDF9 DDF9 DCFA DCF1 Slave Comr Respo	Identi mand: onse:	CODF9 CODF9 COCFA COCF1 fier (hex) my last select	1888F90B 1888F90D 1888F90E 1888F10C		Add	

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TITLE		SHEET 24 OF 31	REV 0
Toolkit setup for MI-21 system		INFORMATION IN THE CONFIDENTIAL AND TO WOODV	S DOCUMENT IS PROPRIETARY VARD.

It is required new application software download for MI-21, drop down menu and click "Load Application"

File	View Device Settings Tools Help		
	New Tool	Ctrl+N	
2	Open Tool	Ctrl+O	
	Close Tool		
H	Save Tool	Ctrl+S	Version v0.1.002
	Save Tool As		(Allis, Command ID: 18800079, Response ID: 1888F900 Masser XCP Connection >> 250kBix, Command ID: 18800179, Response ID: 1888F900 Stave XCP Connection >> 250kBix, Command ID: 18800199, Response ID: 1888F900
۶	Load Application		
	1 Z:\ECUFiles\2020-10-22\ECUFiles\WTools\MI07_Main_v0_10_xxx.wtool		
	2 C:\ECUfiles\WTOOLS\MI07_Main_v0_1_xxx.wtool		
	3 C:\ECUfiles\WTOOLS\APECS 4801_Original.wtool		The second se
	4 C:\ECUfiles\WTOOLS\APECS4800.wtool		I WEAR REFERENCE
	Exit		
			Candidate
Disco	nnected		



Selected target .WAPP files and click next



TITLE

Toolkit setup for MI-21 system

SHEET 25 OF 31 REV 0 INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROPRIETARY TO WOODWARD.

Open			×
$\leftarrow \rightarrow \neg \uparrow$ \uparrow \blacksquare > This PC > OSDisk (C:) > ECU	Files > Cals > MI > SECM70 > Clark >	~ ō	,P Search Clark
Organize 👻 New folder			🎫 v 🛄 💡
Build A	Name	Date modified	Type Size
BuildRA42_PROD_DEV	Achaive HMC24_SECM70_CERT_CLARK_P_0210.wapp	2/10/2021 5:16 PM 2/10/2021 5:26 PM	File folder WAPP File 542 KB
Clark	HMC24_SECM70_NONCERT_CLARK_P_0210.wapp	2/10/2021 5:27 PM	WAPP File 542 KB
The TC TO Copyred To Co			
Filegame HMC24_SECM70_NON	CERT_CLARK_P_0210.wapp	~	Application Files (*.wapp, *.scp, ~ <u>Open</u> Cancel



Load Application	
Restore Settings	
What do you want to do?	
What do you want to do with the device's settings?	
Restore the device's current settings after loading the application.	
The device's current settings may be lost.	
	Cancel Next >

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TITLE		SHEET 26 OF 31	REV 0	
Toolkit setup for M	INFORMATION IN THIS CONFIDENTIAL AND TO WOODV	S DOCUMENT IS PROPRIETARY VARD.		

Load Application					
Network Selection Select the network to connect with.			C		
Select a network:					
Network	Protocol:		XCP		\sim
STCP/IP	Baud Rate:	0	Baud_500KB	t	\sim
Kvaser USBcan Professional HS/H #0 (Channel 0)	Chook the d	louisso to o	onnoot to:		
Kvaser USBcan Professional HS/H #0 (Channel 1) Kvaser Vitual #0 (Channel 0)	Alles	evices to c	onnectio.	Deres	
Kvaser Vitual #0 (Channel 1)	Alias	F9 18	nmand ID 8000E9	188B	F90C
	188C0E	IF9 18	COBF9	188B	F90B
	188C0E	0F9 18	CODF9	188B	F90D
	188000	FA 18 F1 18	COCFA	188B	F90E
	<				>
	Extended	Slave Iden	tifier (hex)		
		Command			
< >		Response			Add
			<u>Cancel</u>	1	lext >
Load Application	_				
Salact Davica			$\left(\left(\right) \right)$		
Select the device to work with and press Next.			Co		600
Device Status					
-188C0CF9 Connected					
			<u>C</u> ancel	1	lext >
Load Application					
Loading Application					
Loading Application Please wait			C		
Loading Application Please wait	(Channel 1).		Ca		
Loading Application Please wait Connecting on Kvaser USBcan Professional HSIH #0	(Channel 1).		C		
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #D	(Channel 1).		Co		
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0	(Channel 1).		Ca		
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0	(Channel 1).				
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0	(Channel 1).				
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #D	(Channel 1).				
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0	(Channel 1).				
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0	(Channel 1).				
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0 Connecting to Memory 22 KB of 553.596 KB	(Channel 1).				
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0 Withing to Memory 22 KB of 553 596 KB	(Channel 1).				
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0 Connecting on Kvaser USBcan Professional HS/H #0 Vitiling to Memory 22 KB of 553 595 KB	(Channel 1).				
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0 Vinting to Memory 22 KB of 553.596 KB	(Channel 1).				
Loading Application Please wait Connecting on Kvaser USBcan Professional HS/H #0 Writing to Memory 22 KB of 553 596 KB	(Channel 1).				
Usading Application Plesse wait Connecting on Kvaser USBcan Professional HS/H #0 Uniting to Memory 22 KB of 553.596 KB	(Channel 1).		Cancel		lext >

Download completed, when successfully download completed, there is need to KEY OFF for finished SW download procedure. DO NOT KEY OFF / POWER OFF ON SECM70 DURING SOFTWARE DOWNLOAD.

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TITLE		SHEET 27 OF 31	REV 0
Toolkit setup for M	INFORMATION IN THIS CONFIDENTIAL AND TO WOODV	S DOCUMENT IS PROPRIETARY VARD.	



MI21_Main_v1_J1939Tx.w File View Device Setting	tool - Woodward ToolKit				- 0 ×
	Diagnostic - OBD N	Monitor	• . :	√ Connect √ Disconnect	
HOME			÷	Select a network:	
	DIAGNOSTIC. OBD DIAG	anostic monitor		Network	
NAVIGATION	FAULT THRESHOLD			S TCP/IP	URENCE COUNTER
FAULT LOG	Fault Threshold Config		O2 Active	Kvaser USBcan Professional HS/H #0 (Channel 0) Kvaser USBcan Professional HS/H #0 (Channel 1)	ce Count
	APP1_APP2_Max_Deviation	Percent	Gas02/	Kvaser Virtual #0 (Channel 0)	nceCount
O ME	ECT_COLD		Gas02l		enceCount
0	ECT_STUCK		GasO2F		peCount
Switchable Panel	ECTSensorRangeHiThesh	degC	LiquidO.		peCount
FuelType	EngineShutdownDelayTime	5	LiquidO		eCount
	EngSpeedLowOilPress	RPM	LiquidO:		Count
	ETC_I_MIN	mA	O2 Time N		renceCount
	ETC_OC_MIN		GasO21		peCount
	IAT_STUCK		Gas02L		tecCount
	MAP_IR_HI	kPa	Gas02F	Protocol: XCP ~	eCount
Engine Speed	MAP_IR_LO	kPa	LiquidO	Baud_S00KBit ~	> =Count
rpm	MAP_IR_TPS_CL		LiquidO:	Check the devices to connect to:	ccurrenceCount
MAP	MAP_IR_TPS_OP		LiquidO:	Alias Command ID Response ID /	IrenceCount
kPa	MAP_STUCK	kPa		188C08F9 188C08F9 188BF90B	renceCount
C	MAP_TPS_STUCK			100C0CF9 100C0CF9 1888F90C	v peCount
Engine Hour	StartUpOilSwDelay	8		Extended Slave Identifier (hex)	peCount
Hour	TPS1_TPS2_Max_Deviation	Percent		Command:	
				Response: Add	dd
				Always connect to my last selected network.	
				<i>,J</i> ⊆onnect	
Disconnected					

When you request communication with SECM70, there is required PASSWORD.

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TITLE		SHEET 28 OF 31	REV 0
Toolkit setup for M	INFORMATION IN THE CONFIDENTIAL AND TO WOODV	S DOCUMENT IS PROPRIETARY VARD.	
			VARD.

🀝 S	ecurity Login		×
9	Device MI07_V device. Please	19_60M2TDG_RJ42-188C0CFA is a secured log in.	
	Security Level:	Level 1 v	
	Password:		
		Log In <u>C</u> lose	

First, you can connect by selecting the appropriate level for each field engineer level 1, laboratory level 2, etc. and then entering password.

WOODWARD Industrial Controls	Toolkit setup manual	Document Number		
TITLE		SHEET 29 OF 31	REV 0	
Toolkit setup for M	INFORMATION IN THI CONFIDENTIAL AND TO WOODV	S DOCUMENT IS PROPRIETARY VARD.		

🎉 Security Login		\times
Device MI07_V device. Please	19_60M2TDG_RJ42-188C0CFA is a secured log in.	
Security Level:	Level 1 Y	
Deserved	Level 1	
Password:	Level 2	
	Level 3	
	Level 4	
	<u>L</u> og In <u>C</u> lose	
🎉 Security Login		×

🎉 Security Login		×
Device MI07_V device. Please	/19_60M2TDG_RJ42-188C0CFA is a sec log in.	cured
Security Level:	Level 2 v	
Password:	····· ^	
	Log In	Close
	Login	Close

After completing security login, communication is activated, and you can check the contents of parameters.

MAR	MI-21 MOBILE INDUST	RIAL ENGIN	IE CONTROL S	SYSTEM N TOOL	
	Cold Coldman Cold (1) Cold (1)	APLC/COM INFO Application System CD Particular project, of Contraction Contra- Contraction Contra- Contraction Contra- Contraction Contra- Contractions Contractions	520705_5mgle 14.0 5 5 17.012_FM42 17.01	International Control	

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2.2 Merge setting tool

2.2.1 Preparation