

blue PiraT2 **CCP User Guide**

Version 1.9.1 - 29.01.2014





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3. Overwiev

The following document describes the usage of CAN Calibration Protocol (CCP) feature of the blue PiraT2.

For further descriptions please refer to the general or feature user guides.

This document refers to the blue PiraT2 firmware 01.09.01 and the blue PiraT2 client version 1.9.1. Some features depend on data logger model, installed licenses or may not be available in older versions.

Software updates are frequently available in the blue PiraT Service Center (you will find a link at the end of the document).

Please make sure that you are using the current software.

4. System requirements

Control Unit

A computer with a Microsoft Windows operating system is used for establishing a connection and to configure the devices. It also allows to save the recorded data and to use them offline.

blue PiraT2

The blue PiraT2 is an optimized data logger developed by Telemotive AG. The communication of bus systems and control units is very important data and can be monitored and recorded very precisely with the blue PiraT2. The collected data can be transmitted from the data logger via Ethernet. The data can be analyzed for example on a computer.

CCP License

For using the CCP feature, a license file must be installed for each blue Pirat2.

A2L file

This file defines parameters which are necessary to set up a communication between the blue PiraT2 and an ECU. Each control unit has its own A2L file, so it cannot be provided by Telemotive AG. Please contact the respective ECU manufacturer.



5. System overview / description

For an easy system overview, we can separate the system into three basic parts.

- Setup / configuration
- Operating / data recording
- Download / conversion.

In general, the system is used to get a MDF v3.3 file that includes the CCP communication data.

5.1. Setup / configuration:

The A2L file (delivered by the ECU supplier) is loaded by the blue PiraT2 client and can be modified if necessary. The client can upload the configuration to the blue PiraT2.



5.2. Operating / Data recording:

The blue PiraT2 and the ECU work as configured. The CCP protocol is running. The blue PiraT2 records the data.



5.3. Download / Conversion:

After recording, the data can be downloaded or converted directly into the MDF v.3.3 format by the blue PiraT2 Client.







6. Setup / configuration

Connect the blue PiraT2 and a Computer by using an Ethernet cable and open the Client. Select the blue PiraT2 in the "Network Logger" window and click on the "Open configuration" button.

	Network Logge	r %		-
	Name	IP	Connected	
	📩 NoName	10.64.76.64		
	+ Enter IP address			
Open cor	nfiguration			

The settings for CCP / XCP are available in the data logger tree. There are also all other channel types from the blue PiraT2 listed. A click on the "+" opens the CCP substructure.

🛟 Config	guration (192.168.0.233) 🛛 🕺
Channels	• Trigger • 🛛 💀 •
	General
🕴 🕂 🔁	CAN
🖶 🚞	LIN
📗 🖶 ··· 🚞	Serial
📗 🖶 ··· 🚞	Ethernet
📗 🖶 ··· 🚞	Analog
🖶 ··· 🚞	Digital input
📔 🖶 ··· 🚞	Digital Out
📗 🖶 ··· 🚞	Camera
	Trigger
(🖶 🔁	CCP/XCP
	Databases

Start with the general settings and select the respective entry.

Configuration (10.64.76.6) 88		
Channels * Trigger * 🔯 * 🔊 *		
General General Settings General Settings	CAN DBC @ Generate DBC files Target Directory: C:\Users\ @ Overwrite existing files	





With the first checkbox, the blue PiraT2 will create a ".dbc" file. A dbc file includes a data base of CCP data field details which were measured over the DAQ lists.

CAN DBC	files	
Target Directory:	C:\Users\	Browse
(verwrite existing files	

With the second checkbox, there could be decided whether an existing dbc file will be overwritten or not. The file name is generated by the client. If you want to keep the existing files, a different destination directory must be selected.

Attention:

If the target data format is MDF v3.3, please select the option to generate the *.dbc files. The ".dbc" file is absolutely necessary to create this file format.

To configure a new ECU, please double click "Add ECU..."



A file selection menu to select an A2L file with the configuration data of the ECU appears. Please select the corresponding A2L file for the ECU.



Attention:

The A2L file has to match absolutely the ECU and its hard- and software version. Otherwise the read or write addresses can be wrong and the CCP communication does not work correctly. Please contact the ECU supplier for the correct A2L file.



Every single ECU can be activated or deactivated on the first tab. Here, you can also type in a name for the ECU.

Configuration (bluePiraT2_Config_192.168.0.233_08-05-2013_12-35-24) 🛛 🛛						
Logger Configuration	Logger Configuration					
🕀 📴 General	ECU	#1 (CRD2)				
🗄 ··· 📴 CAN						
🗄 🖷 🔚 LIN						
🗄 🖙 📴 Serial	Co	nfiguration	Protocol	(CCP on CAN)	Measurement	Seed & Key
🗄 🔚 FlexRay		Device				
🗄 🖻 🛅 MOST						
🗄 🔚 Ethernet		Activa	te ECU			
🗄 🔚 Analog		ECU Name	:	CRD2		
🕀 🚞 Digital input		ECU Addre	ss (Hex):	01		
🕀 📴 Digital Out		Dute Orde				
🕀 🔚 Camera		Byte Order	r:	MOTOROL	A 🔻	
🕀 📴 Trigger		Timeout (m	ns):	2000		
E CCP/XCP						
😳 Add ECU		Busload ma	ax.:	80	,	
····· 💻 ECU #1 (0	RD2)	Protocol Ve	ersion:	v2.1		
👘 🥟 🖉 General se	ttings					

The parameters are predefined by the A2L file. Please change these parameters only if you exactly know their importance and the effects that could happen.

On the tab "Protocol (CCP on CAN)" please select the required CAN channel. The selected CAN channel has to be activated in the CAN settings.

Configuration 😣 Protocol (CCP on CAN) Measureme	nt Seed & Key
CAN	
Channel: CAN-HS #1	
Baudrate: 500000	
Master (Logger)	
CAN ID (Hex): 074a	
Frame Type:	
Standard	
Extended	
Slave (ECU)	
CAN ID (Hex): 04a9	
Frame Type:	
Standard	
Extended	

Baudrate of CAN-HS #1 does not comply with the required baudrate. Current: 83333 (bits/s), Required: 500000 (bits/s).

The baud rate is read out from the A2L file. If the value does not match to the channel (in this case "CAN-HS #1") an error message is shown.



To correct the error, switch to the corresponding CAN channel (CAN-HS #1) and set up the baud rate. You also have to set the CAN channel to be active. The "Acknowledge ON" must be activated, too.



In the tab "Measurement" there could be set up a start and a stop event. This can be done for each ECU.

In this tab the view could be changed between "Signals" and "DAQs" (DAQ Lists).

ECU #1 (CRD2)					Delete this ECU
Configuration Protocol (CCP on C	AN) Measurement Seed	& Key			
Signals DAQs					
Start Event: LOGGER_STARTUP	Stop Event: LOGG LOGGE	ER_SHUTDOWN -	4	Add Signals	Remove Signals
Measurements	Start Condition Trigge	r #2	ent Mode	Interval	

To define a trigger as start or stop event, the license "complex triggers" is necessary. After defining a complex trigger for CCP, the option is also able to start or stop the CCP measurement. Further information about the complex triggers can be found in the document "bP2 - Complex Triggers User Guide".



(

The DAQ lists are already predefined by the A2L file. Some of the lists allow editing the parameters.

ECU #1 (CRD2)			Delete this ECU
Configuration Protocol (CCP on (CAN) Measurement Seed & Key		
Signals DAQs Start Event: LOGGER_STARTUP	Stop Event: LOGGER_SHUT	DOWN 🗸 🖌	Signals Remove Signals
Measurements	Start Condition	Measurement Mode	Interval
🗄 🚍 DAQ #0 (10ms)	OFF 🗸	10ms 👻	10 ms
🗄 🚍 DAQ #2 (Segment)	OFF 🗸 🗸	Segment 🔹	Cylinder segment
🗄 🚍 DAQ #1 (Display)	OFF 🗸	Display 👻	100 ms
	Separate start events	Mode for the	Interval, can be

for the individual individual measurements measurement Interval, can be time- or event triggered

The button "Add Signals" adds individual signals that should be measured to the current measurement.

ECU #1 (CRD2)				Delete this ECU
Configuration Protocol (CCP on C	AN) Measurement Seed & Key			
Signals DAQs				
Start Event: LOGGER_STARTUP	Stop Event: LOGGER_SHUTE		Add Signals	Remove Signals
Measurements	Start Condition	Measurement Mode	Interval	

Signals can also be added for each DAQ list by right clicking the list.

ECU #1 (CRD2)			Delete this ECU
Configuration Protocol (CCP on	CAN) Measurement Seed & Key		
Signas DAQs Start Event: LOGGER_STARTU	Stop Event: LOGGER_SHUT	DOWN 🔻	Signals Remove Signals
Measurements	Start Condition	Measurement Mode	Interval
🗄 🚍 DAQ #0 (10ms)	OFF 🔷	10ms 👻	10 ms
🗄 🚍 DAQ #2 (Segment)	OFF 🗸 🗸	Segment 🔹	Cylinder segment
± 🚍 DAQ #1 (Display)	OFF	Display 👻	100 ms
and the second sec	Add Signals		
	Paste		
	Details		



Both cases will open the following window:

ps	Step #2: Choose signals wizard (Add Signals)	
Step #1: Import from A2L Step #2: Choose signals	Signals:	Coded Value
	AA. AuxiliaryHeaterSwOnEnabl_Mode AB. BAP_SNA_Mode AB. BP_DP_Gear_8 AB. BP_DP_Gear_8 AB. BRD_Indic_Mode AB. BRK_STAT2_CRC_Mode AB. BRK_STAT2_MsgCnt_Mode AB. BRK_STAT2_MsgLost_DeBnc_Mode AB. BRK_STAT2_MsgLost_State_Mode AB. BRK_STAT2_MsgLost_State_Mode AB. Baro AB. Baro	Name: Bat_Volt Datatype: SWORD Lower limit: -64.0 Upper limit: 63.998046875 Bitmaske: - Physical Value - Compumethod: - Unit: -
	AL Baro_SNA_Mode AL Baro_SNA_Mode AL BrkBiB0 AL BrkBiB0 AL BrkBiB1 AL BrkBiB11Mode	Memory address: 0x400060BA Address extension: 0x00 Description: Batteriespannung
	Hits: 4,265 of 4,265 signals	<back next=""> Finish Cancel Help</back>

A double click on the required signal will automatically add this to the measurement. It is also possible to select multiple signals and clicking "Finish".

Signals can be moved per "drag and drop" between the DAQ lists or they can be placed outside the DAQ list.

For each signal which is not in a DAQ list, or complete DAQ lists, a separate start condition can be defined.

ECU #1 (CRD2)				Delete this ECU
Configuration Protocol (CCP	on CAN) Measurement Seed &	Кеу		
Signals DAQs Start Event: LOGGER_STAR	TUP 👻 Stop Event: LOGGER	_SHUTDOWN 👻	Add Signals.	Remove Signals
Measurements	Start Condition	Measurement Mode	Interv	al
🗆 🚍 DAQ #0 (10ms)	DEVICE_CONNECTED	▼ 10ms	🔻 10 ms	
лл Bat_Volt	DEVICE_CONNECTED	 10ms 	🔻 10 ms	
.ரு. BrkBit0	DEVICE_CONNECTED	 10ms 	🔻 10 ms	
🛛 🚍 DAQ #2 (Segment)	DEVICE_CONNECTED	▼ Segment	▼ Cylinde	r segment
J BRD_Indic_Mode	DEVICE_CONNECTED	 Segment 	▼ Cylinde	r segment
🗄 🚍 DAQ #1 (Display)	OFF	 Display 	🔻 100 ms	
лл BrkBit1	DEVICE_CONNECTED	▼ SINGLE	-	
1	OFF DEVICE_CONNECTED Trigger #2	₽.		
Outside				

If the start condition of a single signal from a DAQ list is changed in the "Signal" view, the whole DAQ list must be changed.



ECU #1 (CRD2)			Delete this ECU
Configuration Protocol (CCP on C	CAN) Measurement Seed & Key		
Signals DAQs Start Event: LOGGER_STARTUP	Stop Event: LOGGER_SHUT	DOWN 🗸 🖌 Add	Signals Remove Signals
Measurements	Start Condition	Measurement Mode	Interval
лл Bat_Volt	DEVICE_CONNECTED -	10ms 💌	10 ms
лл. BrkBitO	DEVICE_CONNECTED -	10ms 💌	10 ms
.m. BrkBit1	DEVICE_CONNECTED	SINGLE 💌	
лл BRD_Indic_Mode	Trigger #2	10ms 💌	10 ms
The star	t event of other signals will be ch	anged, too Cancel	

For each signal, the measurement mode from the drop down list is selectable. This function also operates only with Signals outside a DAQ-List or with the whole DAQ list.

Measurements	Start Condition	Measurement Mode
🗄 🚍 DAQ #0 (DAQ l	OFF 👻	10_ms 👻
🗆 🚍 DAQ #1 (DAQ l	OFF 👻	100_ms 👻
🗄 🚍 DAQ #2 (DAQ l	OFF 🔻	seg_sync
лл Bat_Volt	DEVICE_CONNECTED -	SINGLE
		SINGLE
		POLLING

The drop down content is usually defined in the A2L file. If options cannot be selected or changed, this is also defined in the A2L file.

In principle, three different types of measurement can be distinguished:

- SINGLE: The data will be requested once.
- POLLING: The data will be requested in cycle. This is happen after a defined time interval.
- DAQ The data is configured once from the blue PiraT2 within the ECU. The ECU will send the required data after an ECU internal defined event.

Note:

In some cases the ECU software does not support all the measurement modes defined in the A2L file. If more than one measurement mode is configured for the same ECU and the CCP communication does not run, please try to configure only one measurement mode first. So you can isolate the problem and may have at least one or two working measurement modes.

One or more selected signals can be deleted by using the button "Remove Signals".



If the ECU supports "Seed & Key", please check the settings in the corresponding tab.

Configuration	Protoco	l (CCP on CAN) Measurement Seed & Key
Seed & Kev	Configur	ation
Active		
DLL File:		seedkey1.DLL
Function	Name:	ASAP1A_CCP_ComputeKeyFromSeed
Function	Type:	CCP Standard Mode ASAP2 v1.6.x (5 Parameters)

If all configurations have been finished, it is possible to save the configuration or to send it to the data logger. A saved configuration can always be opened by the client.

🗄 🖻 🔁 Databases		
✓ III ► Default configuration	Load from file	Read from logger Write to logger

After writing the configuration to the blue PiraT2, the CCP communication should be working.



7. Operating / data recording

If the configuration has been written to the data logger without errors, the CCP communication should be running and the blue PiraT2 should be recording the CCP communication.

An ECU can always be deleted by the client. Please select the respective ECU and press "Delete this ECU".

Configuration (bluePiraT2_Conf	fig_192.168.0.233_08-05-2013_12-35-24) 🕷	
General Gen	ECU #1 (CRD2) Configuration Protocol (CCP on CAN) Measurement Seed & Key	Delete this ECU
	Device	\$

Alternatively, it is possible to deactivate an ECU. The ECU is getting marked as inactive.

Configuration (bluePiraT2_Config_192.16 Logger Configuration	58.0.233_08-05-2013_12-35-	24) 🕺	
General	ECU #1 (CRD2)		Delete this ECU
	Configuration Protocol ((CCP on CAN) Measurement Seed & Key	
FlexRay	Device		=
MOSI Ethernet	Activate ECU		
🗄 🚞 Analog 🖶 📴 Digital input	ECU Name: ECU Address (Hex):	01	
👜 📲 Digital Out	Byte Order:	MOTOROLA 🗸	
Trigger	Timeout (ms):	2000	
Add ECU	Busload max.:	80 - %	
General settings	Protocol version:	V2.1	
🗄 ··· 🚞 Databases			



If a Remote Control is connected, a state message can be shown in the display. Therefore press "i" button and scroll to page 8 with the page scroll buttons.



The state of four ECUs can be displayed.



- OFF ECU is deactivated
- N/C ECU not connected
- ERR Connection Error

The number shows the delta busload (additional load from CCP) in percent.

The display of the data logger also shows CCP information. The display can only show two lines. Please use the rotating knob until the CCP menu is shown. There are 4 characters showing the state of the ECUs. Each sign is used for one ECU (ECU 1 to ECU 4).



- Not configured
- X Not connected
- T Traffic
- N Connected
- E Connection Error



8. Download / conversion

To convert the data, please connect the client to the data logger, first.

Note:

To get the target data format MDF v3.3, it is absolutely necessary to have the corresponding ".dbc" file.

Click on the "Convert..." button.



In the client window, the convert dialog will be opened. Select the wanted event or a time period.

Event overview Time period	
Data range 🛛 all data 🗸 👻	
Event	Time
Monday, 24.09.2012	
Section #1 - Startup (37MB)	16:04:14 🕕
Marker #4	16:06:10
Marker #5	16:07:01
Marker #6	16:08:05
Shutdown	16:09:04

Choose the CAN channel which is set up for the CCP communication in the "Channel selection tree" (see following page). Therefore double click the respective channel.

Attention:

The direct selection of a channel in the "CCP_XCP" area is only for internal debug reasons. There are only debug messages and no CCP data stored. The CCP communication is stored in the CAN channel in the "CAN" area. Please always select the CAN channel to get the right CCP data!



In the follow screenshot, the CCP communication data was recorded with "HSCAN #1".

Channel selection tree	Target directory Change
🚛 ··· 🛲 Analog-in 🔹	
🗄 🛲 Camera	Format settings Import Export Remove all
⇔	
#1 (HSCAN-1)	
→ #2 (HSCAN-2)	Add a conversion channel by double clicking a channel in the tree on the left side
	iere side.
🔶 #5 (HSCAN-5)	
🔿 #6 (HSCAN-6)	
🔿 #7 (HSCAN-7)	
#9 (HSCAN-9)	
🔿 #11 (HSCAN-11)	
🔿 #12 (HSCAN-12)	
#14 (LSCAN-14)	
	Only for debug messages - no CCP data
→ #2	

If the wanted CAN channel is selected it can be added to the conversion list on the right side by using the "Add..." button or by double clicking

hannel selection tree	Target directory	Change
🚛 🛲 Analog-in	<u> </u>	
🖶 🛲 Camera	Format settings Import Export	Remove all
E CAN		I CENTOVE UN
	CAN #1 (HSCAN-1) CANOE ASCII Format (*.asc)	X
	Telemotive ASCII Format (*.txt)	
	Binary Logging Format (*.Dif)	
并 #5 (HSCAN-5)	CANcer ASCII Format (* asc)	
并 #6 (HSCAN-6)	MDF CAN Signal Format v3.3 (*.mdf)	N
并 #7 (HSCAN-7)	MDF Logging Format (*.log)	15
	Extended Telemotive Trace File (*.xtr	mt)



Afterwards, select the "MDF CAN Signal Format v3.3" as output format.

hannel selection tree	Target directory Change
🖅 🛲 Analog-in	
Camera	Format settings Import Export Remove all
	CAN #1 (HSCAN-1) CANoe ASCII Format (*.asc) Telemotive ASCII Format (*.txt) Binary Logging Format (*.blf) CANCorder Format (*.asc) CANoe ASCII Format (*.asc) MDF CAN Signal Format (*.asc) MDF Logging Format (*.log) Extended Telemotive Trace File (*.xtmt)

Please repeat this for all required channels.

If all channels are added, every channel has to be assigned to the corresponding dbc file. To start please click the "Settings" button (bottom right corner).



In the following window, you can assign each dbc file to the CAN channel which is set up in the configuration.

C)	Options				×
,	2	L)			
Con	version Down	nload			
	Genera		File names	Partitioning	Formats
	CAN pseudo	messages	MOST pseudo messag	es CAN databases	specific format settings
	is required fro	om the target	: format.		
	CAN #2	[no databas	se]		
	CAN #3	[no databas	e]		
	CAN #4	[no databas	se]		
	CAN #5	[no databas	se]		▼ 🛅



Channel selection tree	Target directory :hael Malik\Documents\QRG CCP -	Change
🕀 🛲 Analog-in		
🖶 🚎 🚍 Camera	Format settings Import Export	Remove all
	CAN #1 (HSCAN-1) MDF CAN Signal Format v3.3 (*.mdf)	• 1 X

Click the "Convert" button to start the conversion (bottom right corner).

Convert

The following warning message could be displayed:

Warning		
	Some messages from the following channels could not be converted to the selected output formats.	
	CAN #1: 436168 messages - MDF CAN signal based	
	Reasons for this could be a protocol mismatch between	
	the recorded data and the output format or a message sub type that is not supported by the format.	
Instead the messages were written to a conversion log		
	file in Telemotive ASCII format:	
	C:\Users\Michael Malik\Documents\QRG CCP/Conversion_[2013-05-24]_14.33.30_#1.txt	

The reasons therefore are the all other CAN messages that are recorded additionally to the CCP messages. These additional messages do not match to the MDF v3.3 format. The additional messages will be written into a separate txt file.

Conversion_[2013-05-24]_14.42.13.txt
Trace_CCP_Leihgeraet_20120924_160425_20120924_160901_#01-1_HSCAN-1.mdf

The MDF v3.3 file is ready for further actions

9. Contact



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