

Public Support - Support Request #1039

ADTF UI service function to access CAN data

2017-08-22 08:15 - hidden

Status: Closed	
Priority: Normal	
Category:	
Customer: BOSCH	Product Issue Numbers:
Department:	Affected Products: ADTF 2.13.3
Requester's Priority: Normal	Platform: Windows 7 64bit
Support Level: 2nd Level	Topic: DeviceTB::CAN
Resolution: Solved Issue	FAQ Links:

Description

Supportanfrage

Hello,
I'm Vignesh from Bosch India.
I'm using ADTF2.13.3.
Could you please let me know if there is any function which can be used in an ADTF service to process the CAN message received via Vector_CAN_XL_Receiver.
I'm looking for a function similar to OnPinEvent() function (which we can override in a filter) in an ADTF service.
Is this possible? If not, Please let us know if there are any alternate approach to be followed.

My scenario:

I need a function to process a CAN message as an when it is received in an ADTF service because, I want to show an UI to the user(so I'm implementing a ADTF UI service) which should be displayed even before the ADTF configuration is activated. User would provide details in the UI after which the configuration should be started and based on that inputs, the CAN messages received would be used to perform certain tasks.

Please let me know if more information is required.
Many thanks in advance!!!

Regards,
Vignesh

Lösung

To be able to read CAN signal values, you will need a can media coder which is responsible to decode the raw can data stream.

Please find the the below code snippet to get a first impression:

```
...
// get can support service interface
cObjectPtr<adtf_devicetb::ICANSupport> pCANSupport;
_runtime->GetObject(OID_ADTF_CAN_SUPPORT, IID_ADTF_CAN_SUPPORT, (tVoid**) &pCANSupport);

// create can coder for decoding
cObjectPtr<adtf_devicetb::ICANMediaCoder> pCANDecoder;
pCANSupport->CreateCoder(&pCANDecoder);

// set raw data from media sample and its size to decode the message
pCANDecoder->Begin(psample_data, sizeof(sample_size));

// get message information
pCANDecoder->GetMessageInfo(&nChannel, &nMsgID, &bExtended));

// get desired signal id
pCANDecoder->GetSignalID(nChannel, "signal name", &pSignalID);
```

```
// get appropriate signal value relating to the signal id
pCANDecoder->GetSignalValue(nSignalID, &sSignalValue))

// terminate coder activities for this message
pCANDecoder->End();

...
```

History

#1 - 2017-08-22 10:12 - hidden

- Project changed from Public Support to 5
- Description updated
- Topic set to DeviceTB::CAN
- Customer set to BOSCH
- Affected Products ADTF 2.13.3 added
- Platform Windows 7 64bit added

#2 - 2017-08-22 15:10 - hidden

- Status changed from New to Customer Feedback Required

Dear Vignesh,

thank you for your email.

To be able to read CAN signal values, you will need a can media coder which is responsible to decode the raw can data stream.

Please find the the below code snippet to get a first impression:

```
...
// get can support service interface
cObjectPtr<adtf_devicetb::ICANSupport> pCANSupport;
_runtime->GetObject(OID_ADTF_CAN_SUPPORT, IID_ADTF_CAN_SUPPORT, (tVoid**) &pCANSupport);

// create can coder for decoding
cObjectPtr<adtf_devicetb::ICANMediaCoder> pCANDecoder;
pCANSupport->CreateCoder(&pCANDecoder);

// set raw data from media sample and its size to decode the message
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// get appropriate signal value relating to the signal id
pCANDecoder->GetSignalValue(nSignalID, &sSignalValue))

// terminate coder activities for this message
pCANDecoder->End();

...
```

Greetings
Frank

#3 - 2017-09-06 09:19 - hidden

Dear Vignesh,

please give us a short feedback if this solves your problem, otherwise we will close the issue at the end of the week.

Here's the last reply:

To be able to read CAN signal values, you will need a can media coder which is responsible to decode the raw can data stream.

Please find the the below code snippet to get a first impression:

```
...
// get can support service interface
cObjectPtr<adtf_devicetb::ICANSupport> pCANSupport;
_runtime->GetObject(OID_ADTF_CAN_SUPPORT, IID_ADTF_CAN_SUPPORT, (tVoid**) &pCANSupport);

// create can coder for decoding
cObjectPtr<adtf_devicetb::ICANMediaCoder> pCANDecoder;
pCANSupport->CreateCoder(&pCANDecoder);

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// get desired signal id
pCANDecoder->GetSignalID(nChannel, "signal name", &pSignalID);

// get appropriate signal value relating to the signal id
pCANDecoder->GetSignalValue(nSignalID, &sSignalValue))

// terminate coder activities for this message
pCANDecoder->End();

...
```

#4 - 2017-09-08 14:45 - hidden

Thanks a lot for the reply!!!
You can close the ticket.

From: support@digitalwerk.net [mailto:support@digitalwerk.net]
Sent: Wednesday, September 06, 2017 12:49 PM
Subject: [BOSCH Support - Issue [#1039](#)] ADTF UI service function

#5 - 2017-09-11 14:07 - hidden

- Description updated
- Status changed from Customer Feedback Required to To Be Closed
- Resolution set to Solved Issue

#6 - 2017-09-11 14:07 - hidden

- Status changed from To Be Closed to Closed

#7 - 2017-09-11 14:07 - hidden

- Subject changed from ADTF UI service function to ADTF UI service function to access CAN data

#8 - 2018-01-25 11:47 - hidden

- Project changed from 5 to Public Support
- Private changed from Yes to No