

Public Support - Support Request #11618

Receiving name of current filter instance

2020-07-02 17:12 - hidden

Status: Closed	
Priority: Normal	
Category:	
Customer: AUDI	Product Issue Numbers:
Department: EF	Affected Products: ADTF 3.6.3
Requester's Priority: Normal	Platform: Other Linux 64bit
Support Level: 2nd Level	Topic: ADTF::Common
Resolution: Solved Issue	FAQ Links:
Description	
Supportanfrage	
<p>I was trying to get the instance name of a filter using the recommend way in https://support.digitalwerk.net/issues/11254 but unfortunately it did not work. The macro is not resolved. And I get the literal string "\$(THIS_OBJECT_NAME)". I tried this in the constructor and in Init() StageGraphReady.</p> <p>Any suggestion? complete example how this works?</p> <p>ADTF version is: 3.6.3 (still not the latest)</p>	
Lösung	
Getting full Session name (path):	
<pre>tResult cMyFilter::Init(tInitStage eStage) { RETURN_IF_FAILED(cFilter::Init(eStage)); // Note: Always call the ::Init from your base class (e.g. cQtUIFilter) at the beginning, this cas e cFilter if (eStage == StageGraphReady) { auto strNameUsingGlobalFunction = get_named_graph_object_full_name(*this); LOG_INFO("Instance name: %s", strNameUsingGlobalFunction.GetPtr()); } RETURN_NOERROR; }</pre>	
Receiving a short instance name:	
Use INamedGraphObject::GetName(...) member function of your filter	
Alternate way (but public):	
<pre>RegisterPropertyVariable("name_property", m_strName);</pre>	
and set "\$(THIS_OBJECT_NAME" for cString property variable m_strName	
Related issues:	
Related to Public Support - Support Request #11254: Basic API questions about...	Closed

History

#1 - 2020-07-03 14:48 - hidden

- Related to Support Request #11254: Basic API questions about Sample Stream, Runner and getting the instance name added

#2 - 2020-07-03 14:52 - hidden

- Project changed from Public Support to 11
- Status changed from New to In Progress
- Topic set to ADF::Common
- Customer set to AUDI
- Department set to EF

#3 - 2020-07-06 09:23 - hidden

- Status changed from In Progress to Customer Feedback Required

Hi Samer,

have a look here:

```
tResult cMyFilter::Init(tInitStage eStage)
{
    RETURN_IF_FAILED(cFilter::Init(eStage));
    // Note: Always call the ::Init from your base class (e.g. cQtUIFilter) at the beginning, this case cFilter

    if (eStage == StageGraphReady)
    {
        auto strNameUsingGlobalFunction = get_named_graph_object_full_name(*this);
        LOG_INFO("Instance name: %s", strNameUsingGlobalFunction.GetPtr());
    }

    RETURN_NOERROR;
}
```

#4 - 2020-07-06 09:48 - hidden

Hi Samer,

I think you missed registering the property_variable in your constructor:

```
RegisterPropertyVariable("name_property", m_strName);
```

Only then will it be resolved during initialization.

Regards,

Martin

#5 - 2020-07-07 08:27 - hidden

Hi Florian&Martin,

thanks for the answer! both variants work now.

However, I see a disadvantage in each of them.

- with `get_named_graph_object_full_name(*this)` I get a very long name, which is not helpful for debug messages

- with the `property_variable`, I expose a property which can be seen/changed by the user

I would prefer a way, where I get the name of the short-object internally.

For the current time, these ways suffice. The ticket can be closed!

Best Regards,

Samer

#6 - 2020-07-07 09:12 - hidden

Hi Samer,

- with `get_named_graph_object_full_name(*this)` I get a very long name, which is not helpful for debug messages

then just use the `INamedGraphObject::GetName(...)` member function of your filter :-)

- with the `property_variable`, I expose a property which can be seen/changed by the user

Yes, these macros are actually intended to be used by the user creating a session (by using them in property values) and not for your use-case in the first place.

Regards,

Martin

#9 - 2020-07-14 09:28 - hidden

- Status changed from *Customer Feedback Required* to *To Be Closed*
- Resolution set to *Solved Issue*
- Platform *Other Linux 64bit* added

#10 - 2020-07-14 09:37 - hidden

- Project changed from *11* to *Public Support*
- Subject changed from *Failed to Get Filter Name with \$(THIS_OBJECT_NAME)* to *Receiving name of current filter instance*
- Description updated
- Private changed from *Yes* to *No*

#11 - 2020-10-06 10:27 - hidden

- Status changed from *To Be Closed* to *Closed*