TEMPLE UNIVERSITY

Hattan Badyah <tuf76885@temple.edu>

Re: Sharing tcpip object between two Simulink blocks [ref:_00Di0Ha1u._5000ZsUouk:ref]

4 messages

US MathWorks Support <support@mathworks.com> Tue, Oct 10, 2017 at 8:35 AM
To: "tuf76885@temple.edu" <tuf76885@temple.edu>

Hello Hattan,

My name is Eeshan and this is in reference to your Technical Support Case #02786544 regarding 'Sharing tcpip object between two Simulink blocks'.

Please send me the complete output displayed after entering the command,

for MATLAB versions R2012b and later:
>> ver -support

for MATLAB versions R2012a and earlier:
>> ver

at the MATLAB command line. This will provide us with details regarding your license, product, and platform.

Access to our technical support team is one of the benefits of maintaining an active Software Maintenance Service (SMS) subscription with your license. We look forward to getting this information from you so that we may assist you with your technical issue.

Use the following link to view and update your Case online:
http://www.mathworks.com/support/servicerequests/index.html

Please preserve the Reference ID in any further correspondence on this query. This will allow our systems to automatically assign your reply to the appropriate Case.

Sincerely,
Eeshan Mitra
MathWorks Technical Support Department

ref:_00Di0Ha1u._5000ZsUouk:ref

Hattan Badyah <tuf76885@temple.edu> Tue, Oct 10, 2017 at 10:02 AM
To: US MathWorks Support <support@mathworks.com>

I have added the output of the ver- support as a comment in the Communication History section.

Thank You,
Hattan Badyah
phone: 215-869-3949
[Quoted text hidden]

Hattan Badyah <tuf76885@temple.edu> Tue, Oct 10, 2017 at 10:03 AM
To: US MathWorks Support <support@mathworks.com>

MATLAB Version: 9.1.0.441655 (R2016b)
MATLAB License Number: 637718
Operating System: Mac OS X Version: 10.12.6 Build: 16G29
Java Version: Java 1.7.0_75-b13 with Oracle Corporation Java HotSpot(TM) 64-Bit Server VM mixed mode

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MATLAB	Version 9.1	(R2016b)	License 637718
Simulink	Version 8.8	(R2016b)	License 637718
Bioinformatics Toolbox	Version 4.7	(R2016b)	License 637718
Communications System Toolbox	Version 6.3	(R2016b)	License 637718
Computer Vision System Toolbox	Version 7.2	(R2016b)	License 637718
Control System Toolbox	Version 10.1	(R2016b)	License 637718
Curve Fitting Toolbox	Version 3.5.4	(R2016b)	License 637718
DSP System Toolbox	Version 9.3	(R2016b)	License 637718
Database Toolbox	Version 7.0	(R2016b)	License 637718
Econometrics Toolbox	Version 3.5	(R2016b)	License 637718
Embedded Coder	Version 6.11	(R2016b)	License 637718
Filter Design HDL Coder	Version 3.1	(R2016b)	License 637718
Financial Instruments Toolbox	Version 2.4	(R2016b)	License 637718
Financial Toolbox	Version 5.8	(R2016b)	License 637718
Fixed-Point Designer	Version 5.3	(R2016b)	License 637718
Fuzzy Logic Toolbox	Version 2.2.24	(R2016b)	License 637718
Global Optimization Toolbox	Version 3.4.1	(R2016b)	License 637718
Image Acquisition Toolbox	Version 5.1	(R2016b)	License 637718
Image Processing Toolbox	Version 9.5	(R2016b)	License 637718
Instrument Control Toolbox	Version 3.10	(R2016b)	License 637718
MATLAB Coder	Version 3.2	(R2016b)	License 637718
MATLAB Compiler	Version 6.3	(R2016b)	License 637718
MATLAB Compiler SDK	Version 6.3	(R2016b)	License 637718
MATLAB Report Generator	Version 5.1	(R2016b)	License 637718
Mapping Toolbox	Version 4.4	(R2016b)	License 637718
Model Predictive Control Toolbox	Version 5.2.1	(R2016b)	License 637718
Neural Network Toolbox	Version 9.1	(R2016b)	License 637718
Optimization Toolbox	Version 7.5	(R2016b)	License 637718
Parallel Computing Toolbox	Version 6.9	(R2016b)	License 637718
Partial Differential Equation Toolbox	Version 2.3	(R2016b)	License 637718
RF Toolbox	Version 3.1	(R2016b)	License 637718
Robotics System Toolbox	Version 1.3	(R2016b)	License 637718
Robust Control Toolbox	Version 6.2	(R2016b)	License 637718
Signal Processing Toolbox	Version 7.3	(R2016b)	License 637718
SimBiology	Version 5.5	(R2016b)	License 637718
SimRF	Version 5.1	(R2016b)	License 637718
Simscape	Version 4.1	(R2016b)	License 637718
Simscape Electronics	Version 2.10	(R2016b)	License 637718
Simscape Multibody	Version 4.9	(R2016b)	License 637718
Simscape Power Systems	Version 6.6	(R2016b)	License 637718
Simulink Coder	Version 8.11	(R2016b)	License 637718
Simulink Control Design	Version 4.4	(R2016b)	License 637718
Stateflow	Version 8.8	(R2016b)	License 637718
Statistics and Machine Learning Toolbox	Version 11.0	(R2016b)	License 637718
Symbolic Math Toolbox	Version 7.1	(R2016b)	License 637718
System Identification Toolbox	Version 9.5	(R2016b)	License 637718
Wavelet Toolbox	Version 4.17	(R2016b)	License 637718

[Quoted text hidden]

US MathWorks Support <support@mathworks.com> Tue, Oct 10, 2017 at 11:15 AM
To: "tuf76885@temple.edu" <tuf76885@temple.edu>

Hello Hattan,

I am writing in reference to your Technical Support Case #02786544 regarding 'Sharing tcpip object between two Simulink blocks'.

I have had similar cases from your classmates previously about sharing tcpip objects within Simulink blocks. I see from your model that you are creating the TCPIP objects within Stateflow charts which make them local to it. I am giving a resolution which is the same as I gave to your classmates.

When using Stateflow, you may include MATLAB Function blocks within the charts to read and write from the TCP/IP object in the MATLAB Base Workspace. You can call these functions from within states. Please see the attached model

"tcpipSf_16b.slx" to see how this is implemented.

Please note that this workflow is not documented or recommended. Although these set of commands work fine in MATLAB, Simulink is not meant to share TCP/IP objects. For this reason, the Instrumentation Control Toolbox has the TCP/IP Send/Receive blocks that serves the purpose more efficiently. Please consider migrating to this workflow in the future if possible. Here is an example showing the usage of these blocks:

https://www.mathworks.com/help/instrument/building-simulink-models-to-send-and-receive-data.html#brcdzfj-1

I am marking the case as closed. Please feel free to email me back if the issue is not resolved. I'll reopen the case for further investigation

Sincerely,
Eeshan Mitra
MathWorks Technical Support Department

Please preserve the Reference ID in further correspondence on this query. This allows our systems to automatically associate your reply to the appropriate Case.

If you have a new technical support question, please submit a new request here:
http://www.mathworks.com/support/servicerequests/create.html

Self-Service: http://www.mathworks.com/support
File Exchange and MATLAB Answers: http://www.mathworks.com/matlabcentral/

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tcpipSf_16b.slx
20K