

Robotics Service Bus - Tasks #1418

Describe Recommend Way of using Domain Classes and Converters in the manual

02/14/2013 04:00 PM - J. Wienke

Status:	New	Start date:	02/14/2013
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Documentation	Estimated time:	0.00 hour
Target version:	rsb-0.18		
Description			
<p>How to deal with custom data types, protobuf types, rst etc.</p> <p>Fragments from the wiki:</p> <p><i>Note: more basic explanations of RSB's converters can be found [[Writing_Converters here]] and [[ProtocolBufferConverter here]]. However, the approaches described there, although seemingly less complex, have some problems, and should not be applied in production code.</i></p>			
Introduction			
<p>Using automatically generated protocol buffer messages for serialization and network communication has several advantages:</p> <ul style="list-style-type: none">- IDL-defined message format (as opposed to an informal "definition" through a particular implementation)- Proper handling of machine Endianess- Proper handling of machine word sizes- Some degree of data validation- Introspection support- Generated data-holder classes and (de)serializers<ul style="list-style-type: none">- Available in multiple programming languages without additional effort- Inter-language consistency of data-holder classes and serialized representations <p>It may even seem sensible to use the generated protocol buffer message classes as domain classes as well. However, Google's protocol buffer tutorial advises against this (see "Protocol Buffers and O-O Design" in the protocol buffer tutorial).</p>			

History

#1 - 12/10/2013 11:47 PM - J. Moringen

- Target version changed from rsb-0.10 to rsb-0.11

#2 - 03/25/2014 05:32 PM - J. Moringen

- Target version changed from rsb-0.11 to rsb-0.12

#3 - 04/27/2015 11:12 AM - J. Wienke

- Target version changed from rsb-0.12 to rsb-0.13

#4 - 03/02/2016 09:43 AM - J. Moringen

- Target version changed from rsb-0.13 to rsb-0.14

#5 - 04/15/2016 11:31 AM - J. Moringen

- Target version changed from rsb-0.14 to rsb-0.15

#6 - 07/08/2016 01:44 PM - J. Moringen

- Target version changed from rsb-0.15 to rsb-0.16

#7 - 04/10/2017 08:59 PM - J. Moringen

- Target version changed from rsb-0.16 to rsb-0.17

#8 - 10/16/2017 09:23 PM - J. Moringen

- Target version changed from rsb-0.17 to rsb-0.18