

Robotics Service Bus - Bug #1474

rsb matlab interface not fully working with newest MATLAB versions (R2012b and R2013a)

04/23/2013 03:46 PM - C. Emmerich

Status:	New	Start date:	04/23/2013
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:	Matlab	Estimated time:	0.00 hour
Target version:			

Description

It seems, that with the newest Matlab versions R2012b and R2013a some underlying interfaces or mechanism concerning the **builders** of rst types have changed or are not working anymore. The result is that the following code

```
javaaddpath('/usr/share/java/protobuf-java.jar');

prefix = '/vol/flexirob/releases/x86_64-precise/';
javaaddpath([prefix 'share/java/rsb.jar']);
javaaddpath([prefix 'share/java/rsb.m.jar']);
javaaddpath([prefix 'share/java/rstsandbox.jar']);
javaaddpath([prefix 'share/java/rst.jar']);

rsb.matlab.ConverterRegistration.register();

builder = rsb.matlab.ProtobufUtils.getBuilder('rst.geometry.TranslationType','Translation');
```

crashes with the last line:

```
Java exception occurred:
java.lang.reflect.InvocationTargetException
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
    at java.lang.reflect.Method.invoke(Unknown Source)
    at rsb.matlab.ProtobufUtils.getBuilder(ProtobufUtils.java:42)
Caused by: java.lang.NoSuchFieldError: alwaysUseFieldBuilders
    at rst.geometry.TranslationType$Translation.access$500(TranslationType.java:26)
    at
        rst.geometry.TranslationType$Translation$Builder.maybeForceBuilderInitialization(TranslationType.java:259)
        at rst.geometry.TranslationType$Translation$Builder.<init>(TranslationType.java:251)
    at rst.geometry.TranslationType$Translation$Builder.create(TranslationType.java:263)
    at rst.geometry.TranslationType$Translation$Builder.access$300(TranslationType.java:236)
    at rst.geometry.TranslationType$Translation.newBuilder(TranslationType.java:223)
    ... 5 more
```

However, using MATLAB R2012a the above code works fine.

On my system, all three versions are running on precise-64bit with the same java version:

```
Java 1.6.0_17-b04 with Sun Microsystems Inc. Java HotSpot(TM) 64-Bit Server VM mixed mode
```

History

#1 - 03/26/2015 05:15 PM - J. Moringen

- Category set to Matlab