

Robotics Service Bus - Enhancement #1556

Improve event type handling and converter selection

07/03/2013 09:30 PM - J. Moringen

Status: New	Start date: 07/03/2013
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category: Java	Estimated time: 0.00 hour
Target version: rsb-0.18	

Description

Currently, types of event payloads are usually determined dynamically via `.getClass()`. Converter selection then performs an exact matching of this type against the data types of known converters.

We could probably improve this behavior:

Converter Selection

1. Determine a set of applicable converters: a converter is applicable when the data type of the payload isAssignableFrom the data type of the converter
2. Sort the set of candidates according to the subtype relation; it is an error if this order is not total
3. Select the most specific converter
4. Cache the result

Payload Types

- When not specified, the data type of a payload is determined via `.getClass()`
- When a data type is explicitly specified, the payload object has to be an instance of this type

Related issues:

Related to Robotics Service Bus - Enhancement # 1516: Separate Converter sele...	New	05/27/2013
Related to Robotics Service Bus - Enhancement # 351: Revise Converter Selecti...	New	06/09/2011

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 - 04/17/2016 07:53 PM - J. Moringen

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

#6 - 11/07/2016 10:38 AM - J. Moringen

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

#7 - 04/10/2017 09:01 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*