

## Robotics Service Bus - Bug #1576

### Applications using the socket transport do not terminate correctly

07/26/2013 09:16 AM - J. Wienke

<b>Status:</b>	Resolved	<b>Start date:</b>	07/26/2013
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	J. Wienke	<b>% Done:</b>	100%
<b>Category:</b>	Java	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	rsb-0.9		

#### Description

Applications using the socket transport in java do not terminate correctly. The problem is that due to the BusServer and BusClient caching, the connectors cannot directly deactivate their contained Bus instance, as it might be shared with other connectors.

One solution I can think of is to use a ReferenceCounting facade around BusServer and BusClient instances, which counts the calls to activate and deactivate and only deactivates the underlying BusServer or BusClient once the same number of deactivations was received as activations were received.

#### Associated revisions

##### Revision f1d87e62 - 07/26/2013 02:08 PM - J. Wienke

fixes #1576: Implement Bus reference counting

Use reference counting for cached Bus instances to ensure that they are properly deconstructed.

- Bus.java: Make Bus an interface
- BusBase.java: New file with existing implementation from Bus.java
- BusClient.java: Adapted to BusBase
- BusServer.java: likewise
- RefCountingBus.java: A decorator for Bus instances performing reference counting using the activate and deactivate methods
- SocketConnectorUtility.java: Use reference counting
- BusCacheTest.java: Adapted to BusBase

#### History

##### #1 - 07/26/2013 09:20 AM - J. Moringen

The other implementations use reference counting for this.

##### #2 - 07/26/2013 09:22 AM - J. Wienke

- Status changed from New to In Progress

Ok, then I will also follow this approach.

##### #3 - 07/26/2013 02:09 PM - J. Wienke

- Status changed from In Progress to Resolved

- % Done changed from 0 to 100

Applied in changeset rsb-java|commit:f1d87e6239d71cb30e6f7cdd5c3663544de29291.