

## Robotics Service Bus - Tasks #2317

Tasks # 2233 (In Progress): Wait for confirmation when joining Spread groups

### Wait for confirmation when joining Spread groups [Common Lisp]

06/03/2015 03:58 PM - J. Moringen

<b>Status:</b>	Resolved	<b>Start date:</b>	06/03/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	J. Moringen	<b>% Done:</b>	100%
<b>Category:</b>	Common Lisp	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	rsb-0.13		
<b>Description</b>			
<b>Related issues:</b>			
Copied to Robotics Service Bus - Tasks # 2434: Wait for confirmation when joi...		<b>Resolved</b>	<b>06/03/2015</b>
Copied to Robotics Service Bus - Tasks # 2435: Wait for confirmation when joi...		<b>Rejected</b>	<b>06/03/2015</b>

#### Associated revisions

##### Revision 35dc7f6d - 06/03/2015 04:10 PM - J. Moringen

ref-group allows waiting in src/transport/spread/{protocol,connection}.lisp

refs #2317

The operation of joining a Spread group can only be considered complete once the connection that did the joining receives a membership message corresponding to the join operation. Since it is sometimes necessary to wait for the joining of a group, ref-group now supports waiting for the operation's completion.

- src/transport/spread/protocol.lisp (ref-group): added waitable? keyword parameter; extended documentation string accordingly
- src/transport/spread/connection.lisp (ref-group connecting string): accept waitable? keyword parameter; return number of group references, number of groups and optionally promise waiting on the operation's completion

##### Revision e2964d40 - 06/03/2015 04:36 PM - J. Moringen

Wait for join operations in src/transport/spread/in-\*connector.lisp

fixes #2317

All in-direction connectors wait for corresponding Spread group joining operations to complete when attaching to scopes. The in-pull-direction connector has to drain queued messages while waiting.

- src/transport/spread/in-connector.lisp  
(notify in-connector scope eql :attached): call notify t :attached when joining the first group; wait for all join operations to complete
- src/transport/spread/in-pull-connector.lisp (header): updated copyright  
(notify in-pull-connector scope eql :attached): new method; reference

- group and, if necessary, wait for join operation to complete; drain Spread mailbox as much as necessary in the process
- src/transport/spread/in-push-connector.lisp (header): updated copyright
- (notify in-push-connector eql t eql :attached): changed specializer scope -> eql t; comment change
- (notify in-push-connector eql t eql :detached): comment change

#### Revision 4963a977 - 06/18/2015 08:27 AM - J. Moringen

unref-group allows waiting in src/transport/spread/{protocol,connection}.lisp

refs #2317

Like joining a Spread group, the operation of leaving a Spread group can only be considered complete once the connection that did the leaving receives a membership message corresponding to the leave operation. Since it is sometimes necessary to wait for the leaving of a group, unref-group now supports waiting for the operation's completion.

- src/transport/spread/protocol.lisp (unref-group): added waitable? keyword parameter; extended documentation string accordingly
- src/transport/spread/connection.lisp (make-hook-promise):  
(ref-group connection string):  
(unref-group connection string):

#### Revision 42caef2f - 06/18/2015 08:30 AM - J. Moringen

Wait for leave operations in src/transport/spread/in-\*connector.lisp

refs #2317

All in-direction connectors wait for corresponding Spread group leaving operations to complete when detaching from scopes. The in-pull-direction connector has to drain queued messages while waiting.

- src/transport/spread/in-connector.lisp  
(notify in-connector scope eql :detached): call notify t :detached when leaving the final group; wait for all leave operations to complete
- src/transport/spread/in-pull-connector.lisp  
(notify in-pull-connector scope eql :detached): new method; dereference group and, if necessary, wait for leave operation to complete; drain Spread mailbox as much as necessary in the process

## History

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#1 - 06/03/2015 04:10 PM - J. Wienke

In the listener pooling branch I also added this step for leaving groups. The same confirmation membership message is available there.

**#2 - 06/03/2015 04:43 PM - J. Moringen**

J. Wienke wrote:

| *In the listener pooling branch I also added this step for leaving groups. The same confirmation membership message is available there.*

Makes sense, I will add that.

**#3 - 06/03/2015 04:50 PM - J. Moringen**

- Status changed from *In Progress* to *Resolved*

- % Done changed from 0 to 100

Applied in changeset commit:rsb-cl|e2964d40c351a2da4f2722dc39b4ccf6d3566942.

**#4 - 11/16/2015 01:26 PM - J. Wienke**

- Copied to Tasks #2433: *Wait for confirmation when joining Spread groups [C++]* added

**#5 - 11/16/2015 01:28 PM - J. Wienke**

- Copied to Tasks #2434: *Wait for confirmation when joining Spread groups [Java]* added

**#6 - 11/16/2015 01:29 PM - J. Wienke**

- Copied to Tasks #2435: *Wait for confirmation when joining Spread groups [C++]* added

**#7 - 11/16/2015 01:33 PM - J. Moringen**

- Copied to deleted (Tasks #2433: *Wait for confirmation when joining Spread groups [C++]*)