

Robotics Service Bus - Feature #1982

Feature # 2139 (New): Finalize introspection implementation

Enable introspection senders by default?

09/05/2014 06:45 PM - J. Moringen

Status:	In Progress	Start date:	09/05/2014
Priority:	Normal	Due date:	
Assignee:	J. Moringen	% Done:	60%
Category:	Introspection	Estimated time:	0.00 hour
Target version:	rsb-0.18		
Description			
I think we decided to enable introspection by default at some point.			
Now we should probably discuss when and how we want to make that transition after the implementations get pushed.			

Associated revisions

Revision e9a5887c - 01/29/2015 06:26 PM - J. Moringen

Disable introspection by default in rsb/__init__.py

refs #1982

- rsb/__init__.py (ParticipantConfig.__fromDict): disable introspection by default (ParticipantConfig.fromDefaultSources): likewise

Revision 59e3ef41 - 01/29/2015 07:38 PM - J. Moringen

Enable introspection by default in

refs #1982

Note that the introspection plugin still has to be loaded manually for now.

- src/rsb/ParticipantConfig.cpp (ParticipantConfig::ParticipantConfig): initialize the introspection member variable to true

Revision b06849e5 - 01/29/2015 07:39 PM - J. Moringen

Enable introspection by default in src/rsb/ParticipantConfig.cpp

refs #1982

Note that the introspection plugin still has to be loaded manually for now.

- src/rsb/ParticipantConfig.cpp (ParticipantConfig::ParticipantConfig): initialize the introspection member variable to true

Enable introspection by default in src/rsb/config/ParticipantConfig[Creator].java

refs #1982

- src/rsb/config/ParticipantConfig.java
(ParticipantConfig.introspectionEnabled): changed value false -> true
- src/rsb/config/ParticipantConfigCreator.java
(ParticipantConfigCreator.reconfigure): changed default value of introspection property false -> true
- test/rsb/ParticipantObservationTest.java
(ParticipantObservationTest.config): new member variable; configuration without introspection for tests
(ParticipantObservationTest.setUp): initialize new config member
(Participant.listenerNotifies): use configuration when constructing
(ParticipantObservationTest.participantNotifies): likewise
(ParticipantObservationTest.informerNotifies): likewise
(ParticipantObservationTest.remoteServerNotifies): likewise
(ParticipantObservationTest.localServerNotifies): likewise
(ParticipantObservationTest.localMethodNotifies): likewise
(ParticipantObservationTest.remoteMethodNotifies): likewise
- test/rsb/config/ParticipantConfigTest.java
(ParticipantConfigTest.introspectionEnabled): adapted expected values to changed default value
- test/rsb/config/ParticipantConfigCreatorTest.java
(ParticipantConfigCreatorTest.introspection): likewise

History

#1 - 11/28/2014 05:48 AM - J. Moringen

@Johannes, Sebastian: Do you think we should attempt this?

For Common Lisp, Python and probably Java, enabling introspection by default should (technically) not be problem since the functionality is always available.

In C++, introspection can only be enabled, if the plugin is loaded. As a result, making "enabled" the default would only have an effect if the plugin is loaded. Otherwise the configuration option would be ignored.

There are also the potential stability and performance implications to consider (additional Spread connections, additional communication, periodic ping events, etc).

In the apartment context, introspection did not cause any problems (that I am aware of). However, in some situations, for example on embedded systems, users may object to having introspection enabled by default.

#2 - 12/01/2014 08:10 AM - S. Wrede

Generally, I vote for switching introspection on by default as it provides an important tool for both new and experienced users. For experienced users, it should be no problem to switch off the introspection in case it leads to resource issues.

A more conservative strategy could also be to let it switched off by default in RSB 0.11 and enable it by default in 0.12. That way, we could first get some hands-on experience with the new feature.

#3 - 12/11/2014 05:47 PM - J. Moringen

- Status changed from *Feedback* to *In Progress*
- Target version changed from *rsb-0.11* to *rsb-0.12*

We decided to not enable introspection by default for the 0.11 release for the following reasons:

- Avoid the possibility of introducing stability and/or performance issues for systems running with default configuration
- How would always loading the C++ introspection plugin be accomplished?
- How will introspection interact with participant configuration via URLs?

We will reconsider the possibility for the 0.12 release.

#4 - 12/17/2014 03:36 PM - J. Moringen

- Parent task changed from #44 to #2139

#5 - 01/29/2015 06:26 PM - J. Moringen

- Assignee set to *J. Moringen*

#6 - 01/29/2015 09:07 PM - J. Moringen

- % Done changed from 0 to 60

#7 - 04/27/2015 11:06 AM - J. Wienke

Is there anything missing for this issue to be resolved?

#8 - 08/19/2015 04:15 PM - J. Wienke

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

#9 - 03/03/2016 12:11 PM - J. Moringen

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

#10 - 06/08/2016 09:01 PM - J. Moringen

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

#11 - 11/07/2016 10:33 AM - J. Moringen

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

#12 - 04/10/2017 08:59 PM - J. Moringen

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

#13 - 10/16/2017 09:23 PM - J. Moringen

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