

Robotics Service Bus - Enhancement #89

Evaluate RTTI / typeid for Simplifying Informer Interfaces

08/25/2010 09:18 AM - S. Wrede

Status:	Resolved	Start date:	08/25/2010
Priority:	Normal	Due date:	
Assignee:	J. Moringen	% Done:	100%
Category:	C++	Estimated time:	0.00 hour
Target version:			

Description

Check if we can't use RTTI to get the type name that shall also be used in the registry.
This could also be used to let the components register themselves in the registry.

However, question is if we need to perform some name mangling if this code is platform dependant.

Currently, this looks like the following:

```
Publisher<PersonHyp>::Ptr p(new Publisher<PersonHyp>(uri,"PersonHyp");  
p->publish(image,"IplImage")
```

Eventually, the publisher code could boil down to:

```
PublisherPtr p = Publisher<string>::create(uri);  
p->publish("blub");  
p->publish<IplImage>(new IplImage());
```

(For the above example to work, the type name would need to be extracted in the constructor or in the templated publish method using typeid.)

Associated revisions

Revision 8233aa96 - 04/29/2011 08:06 PM - J. Moringen

RTTI-based default type name in Informer constructor

fixes #89

- src/rsb/Informer.h: use RTTI to compute default type name when constructing Informer objects

History

#1 - 04/08/2011 05:09 PM - J. Wienke

With the new distinction between wire type and wire schema this is now easily possible, because determining a converter is only a selection in the language of each program and the rtti generate string is not passed over the network.

#2 - 04/29/2011 05:53 PM - J. Wienke

- Assignee changed from S. Wrede to J. Moringen

Jan, didn't this already happen?

#3 - 04/29/2011 08:06 PM - J. Moringen

- *Status changed from New to Resolved*

- *% Done changed from 0 to 100*

Applied in changeset r685.