

## Robotics Service Bus - Enhancement #521

### Introduce informer base class

08/25/2011 06:13 PM - Anonymous

<b>Status:</b>	Resolved	<b>Start date:</b>	08/25/2011
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>	C++	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.5		
<b>Description</b>			
Introduce an informer base class, which provides all non-templated features and derive the current (templated) informer class from this base class. This will allow to create collections of (base) informers to iterate over and use the generic methods.			

#### Associated revisions

##### Revision 76d8d95e - 09/02/2011 08:19 PM - J. Moringen

Introduced InformerBase class in src/rsb/Informer.{h,cpp}

fixes #521

- src/rsb/Factory.{h,cpp}: added createInformerBase method which can be used to create InformerBase instances without knowing their data types at compile time
- src/rsb/Informer.{h,cpp}: added InformerBase class; moved members of Informer to InformerBase; moved large parts of Informer and InformerBase to cpp file
- test/rsb/integrationtest.cpp: added creation and use of new InformerBase class

#### History

##### #1 - 08/26/2011 08:32 PM - J. Moringen

I implemented this experimentally and it seems feasible.

Advantages

- Payload-independent pointer type for Informer s
- Less code in Informer.h

Disadvantages

- Informer/InformerBase would become more complicated
- InformerBase may encourage writing unsafe code?

##### #2 - 08/28/2011 12:39 AM - J. Moringen

I thought some more about this and came to the conclusion that

- InformerBase should probably not be considered abstract
  - This is required when the data type of an informer is genuinely not known at compile time (as opposed to "forgotten" after creation as in the above proposal)
- We should add a Factory::createInformerBase method that works without a compile-time type parameter

##### #3 - 09/02/2011 06:25 PM - S. Wrede

- *Tracker changed from Tasks to Enhancement*
- *Target version set to rsb-0.10*

To me this sounds reasonable.

**#4 - 09/02/2011 08:20 PM - J. Moringen**

- *Status changed from Feedback to Resolved*

- *% Done changed from 0 to 100*

Applied in changeset r2512.

**#5 - 10/27/2011 08:17 PM - J. Moringen**

- *Target version changed from rsb-0.10 to 0.5*