

## Robotics Service Bus - Enhancement #301

### Adapt converter selection

05/18/2011 01:29 PM - J. Moringen

<b>Status:</b>	Resolved	<b>Start date:</b>	05/18/2011
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	J. Moringen	<b>% Done:</b>	100%
<b>Category:</b>	C++	<b>Estimated time:</b>	4.00 hours
<b>Target version:</b>	0.2		

#### Description

Implement the following aspects which are specified in [[Conversion]]

- Implement something like ConflictFreeConverterSet
- Use it in
  - ParticipantConfig
  - Connectors
- Converter options should dispatch on implementation language

#### Associated revisions

##### Revision bdf3bce2 - 05/20/2011 01:58 AM - J. Moringen

Removed obsolete code in src/rsb/converter/Repository.h

refs #301

- src/rsb/converter/Repository.h: removed obsolete methods  
getConverterByWireSchema, getConverterByDataType and related members  
wireSchemaMap, dataTypeMap; registerConverter now accepts ambiguous  
converters; fixed minor nomenclature confusions

##### Revision 20e058b3 - 05/20/2011 02:50 PM - J. Moringen

Added class UnambiguousConverterMap

refs #301

- src/CMakeLists.txt: added file src/rsb/converter/UnambiguousConverterMap.h
- src/rsb/converter/UnambiguousConverterMap.h: new file; contains  
class UnambiguousConverterMap which manages an unambiguous  
wireSchema -> converter or dataType -> converter mapping

##### Revision 133221db - 05/20/2011 02:52 PM - J. Moringen

Dummy parameter in Converter constructor (for distinct signatures)

refs #301

- src/rsb/converter/Converter.h: added a boolean dummy parameter to  
Converter constructor which would otherwise be shadowed by another  
constructor for certain wire-types

##### Revision d173bc4e - 05/20/2011 07:42 PM - J. Moringen

Implementation of new converter selection strategy

fixes #301

- src/CMakeLists.txt: removed files  
src/rsb/transport/ConverterSelectingInConnector.h and  
src/rsb/transport/ConverterSelectingOutConnector.h
- src/rsb/Factory.{h,cpp}: moved ambiguity checks for converters into  
Factory from ConverterSelecting{In,Out}Connector

- src/rsb/ParticipantConfig.cpp: accept new converter selection configuration options
- src/rsb/converter/Repository.h: added functions to construct unambiguous converter sets for serialization and deserialization
- src/rsb/transport/ConverterSelectingConnector.h: simplified since extensive lookups are not required at this point anymore
- src/rsb/transport/ConverterSelectingInConnector.h: removed; now handled by Factory
- src/rsb/transport/ConverterSelectingOutConnector.h: likewise
- src/rsb/transport/spread/InConnector.{h,cpp}: converter map is now mandatory
- src/rsb/transport/spread/OutConnector.{h,cpp}: likewise
- test/rsb.conf-for-smoke-test: converted to new converter selection configuration option names
- test/rsb.conf-semantic-errors-6: likewise
- test/rsb/transport/spread/SpreadConnectorTest.cpp: supply converter maps explicitly as required by new interface

## History

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### #1 - 05/18/2011 01:30 PM - J. Moringen

- *Subject changed from Adapt converter selection according `[[Conversion]]` to Adapt converter selection*

### #2 - 05/20/2011 07:42 PM - J. Moringen

- *Status changed from New to Resolved*
- *% Done changed from 0 to 100*

Applied in changeset r1064.