

Robotics Service Bus - Feature #305

Implement plugin mechanism

05/20/2011 12:25 PM - J. Moringen

Status: Resolved	Start date: 05/20/2011
Priority: High	Due date:
Assignee: J. Moringen	% Done: 100%
Category: C++	Estimated time: 8.00 hours
Target version: rsb-0.9	
Description Specification is [[PluginConcept here]]. Required steps: <ul style="list-style-type: none">- Decide on suitable trigger for plugin loading (rsb::init vs. rsb::Factory constructor)- Option handler support for plugins.cpp.path and plugins.cpp.libraries- Loading mechanism (e.g. dlopen)- Initialization mechanism (e.g. extern "C" { void rsb_plugin_init() {} }) <p><i>Some of these aspects should probably be handled in RSC.</i></p>	
Related issues:	
Related to Robotics Service Bus - Enhancement # 286: Introspectable Configura...	In Progress 05/12/2011
Related to Robotics Service Bus - Tasks # 1166: Document plugin mechanism	In Progress 12/10/2012
Blocks Robotics Service Bus - Tasks # 43: Encapsulate Transport Implementatio...	Closed 09/16/2012
Blocked by Robotics Systems Commons - Tasks # 127: Create a plugin mechanism	Resolved 09/29/2012

Associated revisions

Revision 3e754427 - 09/13/2012 02:50 PM - J. Moringen

Added plugin mechanism in src/rsb/Factory.{h,cpp}

fixes #305

We basically just configure RSC's plugin mechanism with an RSB-specific default searchpath: \$HOME/.rsb\$MAJOR.\$MINOR/plugins and \$libdir/rsb\$MAJOR.\$MINOR/plugins

- src/rsb/Factory.{h,cpp}: added function configureSubsystem; used for logging and plugin configuration; pass RSB configuration to RSC plugin mechanism and add RSB-specific default searchpath
- src/rsb/Version.{h,cpp}.in: added Version::libdir method for determining the library directory of the RSB installation
- examples/plugin/Plugin.cpp: new file; contains a minimal plugin
- examples/CMakeLists.txt: build minimal plugin as a shared library

History

#1 - 05/26/2011 03:20 PM - J. Wienke

- Target version changed from 0.3 to rsb-0.9

#2 - 10/21/2011 04:58 PM - S. Wrede

- Category deleted (C++)
- Priority changed from Normal to High

#3 - 08/29/2012 05:57 PM - S. Wrede

A basic implementation example can be found here:

<https://redmine.amarsi-project.eu/projects/quaddrivers/repository/revisions/master/entry/src/liboncilla/BackendFactory.cpp>

#4 - 08/29/2012 06:53 PM - J. Moringen

- *Category set to C++*

#5 - 09/13/2012 12:23 PM - J. Moringen

- *Status changed from New to In Progress*

- *Assignee set to J. Moringen*

#6 - 09/16/2012 03:02 PM - J. Moringen

- *File 0001-Added-plugin-mechanism-in-src-rsb-Factory.-h-cpp.patch added*

- *% Done changed from 0 to 70*

Any feedback (patch is attached in case my email did not get through)?

#7 - 09/29/2012 05:36 PM - J. Moringen

- *Status changed from In Progress to Resolved*

- *% Done changed from 70 to 100*

Applied in changeset rsb-cpp|commit:3e75442720fca84c390bbced1d4369bc34503c4a.

Files

0001-Added-plugin-mechanism-in-src-rsb-Factory.-h-cpp.patch	8.75 KB	09/16/2012	J. Moringen
---	---------	------------	-------------