

## Robotics Service Bus

|  | 2019-12                     |    |    |    | 2020-1 |   |   |   |   | 2020-2 |   |   |   |    | 2020-3 |    |    |    | 2020-4 |    |    |    | 2020-5 |    |    |    |
|--|-----------------------------|----|----|----|--------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|
|  | 49                          | 50 | 51 | 52 | 1      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15     | 16 | 17 | 18 | 19     | 20 | 21 | 22 |
| <b>Robotics Service Bus</b>                              | <b>Robotics Service Bus</b> |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Add Conditional Parsing for User Data in (...)           |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| State model/checking for modifications on (...)          |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Unify exception handling                                 |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Specify barricade strategy for passed arguments          |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Support QoS in Spread connector                          |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Generate and export API Documentation                    |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Timestamp compatilby to ROS and YARP                     |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Use RST IDL Type for Protocol Buffer Tutorials           |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Test / Reconsider Distributed Logging                    |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Check usage and reduce number of dynamic (...)           |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Consider introduction of lock-free queues                |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Hierarchical Event Fusion                                |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Ideas for Recording Data on a Resource-Constrained (...) |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| rsb-java does not shutdown properly if a (...)           |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Create an in process example                             |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Allow regex-based converter selection for (...)          |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Move Figures to Top-Level Folder                         |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Improve documentation for debian package (...)           |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| VERSION_SUFFIX should be configurable                    |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Socket transport in Python silently drops (...)          |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Matlab Installation Doc                                  |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Better handling of dependencies without pc (...)         |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| rsb matlab interface not fully working with (...)        |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Encode version in library name                           |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| pkg-config test fails in integration test                |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Support common installations (to simlify (...)           |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |
| Allow (optional) parallel method calls                   |                             |    |    |    |        |   |   |   |   |        |   |   |   |    |        |    |    |    |        |    |    |    |        |    |    |    |

|   |                 |
|---|-----------------|
| added WireSchemaFilter + FilterCombination      |                 |
| Compilation of RSB Tools fails on MacOS 10.10   |                 |
| Setters for TimesyncStrategy options            |                 |
| Uniformed path for System-Config in Windows     |                 |
| Robotics Service Bus - rsb-0.18                 | rsb-0.18 30%    |
| Introspectable Configuration Options (...)      | In Progress 80% |
| Introspectable Configuration Options (...)      | In Progress 50% |
| Introspectable Configuration Options (...)      | In Progress 50% |
| C++ Spread: Transport-level errors are (...)    | New 20%         |
| Revise Converter Selection Mechanism            | New 100%        |
| Move Spread Transport into separate (...)       | In Progress 60% |
| Document Connector Extension Point              | New 0%          |
| Converters for Fundamental Types are (...)      | In Progress 80% |
| Data handlers cannot deal with unexpected (...) | New 0%          |
| Implement ErrorHandler subsystem in (...)       | New 0%          |
| Add Transport class [C++]                       | In Progress 50% |
| Implement error handling subsystem              | New 0%          |
| Implement error handling subsystem              | In Progress 30% |
| Specify disconnect protocol for socket (...)    | In Progress 50% |
| Allow checking if handlers are registered (...) | Feedback 0%     |
| Document programmatic configuration (...)       | In Progress 20% |
| Really support wire-types other than (...)      | New 0%          |
| Use better wire-type for binary blobs           | New 0%          |
| Add a CMake macro for RSB plugins               | Feedback 0%     |
| Document plugin mechanism                       | In Progress 25% |
| Document Java plugin mechanism                  | New 0%          |
| Document Python plugin mechanism                | New 0%          |
| Document Common Lisp plugin mechanism           | New 0%          |
| Python socket transport swallows missing (...)  | New 0%          |
| Document receiving and processing using (...)   | New 0%          |
| Document writing converters in manual           | In Progress 30% |
| Describe Recommend Way of using Domain (...)    | New 0%          |
| Allow easy debugging of RSB configuration       | In Progress 90% |
| Implement configuration inspector (...)         | In Progress 50% |

|   |                 |
|---|-----------------|
| Improve termination of python processes                       | New 0%          |
| Provide better interface for parameterless (...)              | New 0%          |
| Transports returned by ParticipantConfig::getTransports (...) | New 0%          |
| Improve event type handling and converter (...)               | New 0%          |
| Prevent termination of BusServer when (...)                   | New 0%          |
| setup.py should specify the protobuf (...)                    | New 50%         |
| Configurator can't check if connector (...)                   | New 0%          |
| Export default plugin folder                                  | Feedback 50%    |
| Highlight interesting things in logger/bag-cat (...)          | In Progress 30% |
| Add commandline options to exclude scopes (...)               | In Progress 60% |
| Add intermediate results to request-reply (...)               | In Progress 10% |
| Finalize introspection implementation                         | New 16%         |
| Provide introspection functionality (...)                     | Feedback 0%     |
| Enable introspection senders by (...)                         | In Progress 60% |
| Rebuild introspection database (...)                          | In Progress 50% |
| Reference documentation in error reports                      | In Progress 70% |
| Reference documentation in conditions                         | In Progress 70% |
| Call tool does not complain if it can't (...)                 | Feedback 30%    |
| Document void -> void RPC in the troubleshooting (...)        | In Progress 20% |
| Documentation should include an example (...)                 | New 0%          |
| Extend documentation on using and writing (...)               | New 0%          |
| Document converter disambiguation (programmatic (...))        | New 0%          |
| Listener state changes are not synchronized, (...)            | New 0%          |
| Handling of missing/not-encodable Hostname (...)              | New 0%          |
| Allow constructing scopes from a list (...)                   | New 0%          |
| Provide simple API to programmatically (...)                  | Feedback 70%    |
| Specification of preferred converters (...)                   | New 0%          |
| Remove rsb.wire-schema property from (...)                    | New 0%          |
| Visual indication when rsb-logger* (or (...)                  | New 0%          |
| Use sphinx.ext.ifconfig for version-dependent (...)           | New 0%          |
| Socket Server Deadlock  | New 0%          |
| Wait for confirmation when joining Spread (...)               | In Progress 60% |
| Wait for confirmation when joining (...)                      | New 0%          |
| Wait for confirmation when joining (...)                      | New 0%          |

|  |                 |
|--|-----------------|
| Unexpected Exception about introspection             | New 0%          |
| Graph for introspection web interface                | In Progress 50% |
| Improve frequency calculation                        | New 0%          |
| Scope-specific max-depth overrides for (...)         | New 0%          |
| Add average rate field to logger styles              | New 0%          |
| Unable to play large tide file when (...)            | New 0%          |
| In addition to DISPLAY_NAME, the introspection (...) | In Progress 0%  |
| CL tools sometimes fail to connect to (...)          | New 0%          |
| Release version 0.18                                 | In Progress 90% |
| Introspection Bugs                                   | New 0%          |
| Robotics Service Bus - rsb-1.0                       | rsb-1.0 16%     |
| Implement Distributed Namingservice                  | Feedback 0%     |
| Pull-style Event Receiving                           | New 0%          |
| Pull-style Event Receiving                           | New 0%          |
| Support URIs for Participant Configuration           | New 0%          |
| Support URIs for Participant Configuration           | New 0%          |
| Interaction with Foreign Nameservice                 | In Progress 50% |
| Handling of sendTime in Informer                     | New 0%          |
| Multi-Connector Setups lead to duplicate (...)       | In Progress 20% |
| Logo Design  | Feedback 70%    |
| Support for RPC clients which do not (...)           | New 0%          |
| Refactor rsb.transport.converter Module              | In Progress 30% |
| Language-specific configuration                      | Feedback 0%     |
| Evaluate whether we want to move to (...)            | New 0%          |
| Name resolution does not work with absolute (...)    | Feedback 0%     |
| Scope renaming                                       | New 0%          |
| Specify scope renaming                               | New 0%          |
| Scope renaming (C++)                                 | New 0%          |
| Scope renaming [Java]                                | New 0%          |
| Scope renaming [Python]                              | New 0%          |
| Scope renaming [Common Lisp]                         | New 0%          |
| Make causes semantically identifiable                | New 0%          |
| Replace ProtoBuf Serialization of RSB (...)          | In Progress 20% |
| "auto" server mode is inefficient                    | New 0%          |

|  |                 |
|--|-----------------|
| Implement communication with congestion (...)        | In Progress 10% |
| Test examples as part of unit tests                  | New 0%          |
| Test examples as part of unit tests                  | New 0%          |
| Participant-wise configuration                       | New 0%          |
| Sphinx-based documentation for rsb-matlab            | New 0%          |
| Use lparallel futures if possible                    | In Progress 30% |
| Common Lisp logger stumbles upon wrong (...)         | New 0%          |
| Add data type to all participants, especially (...)  | New 0%          |
| Separate Converter selection strategies (...)        | New 0%          |
| "Auto" mode of the socket transport (...)            | New 0%          |
| Evaluate Boost.Exception for dealing (...)           | New 0%          |
| Deliver binaries with pre-warmed PCL (...)           | New 0%          |
| Change and/or enforce naming conventions (...)       | New 0%          |
| Implement introspection event receiver (...)         | New 0%          |
| Implement introspection event receiver (...)         | New 0%          |
| Implement introspection event receiver (...)         | New 0%          |
| Include environment variables in introspection (...) | New 0%          |
| Reader does not work with multi-connector (...)      | New 0%          |
| Support URIs for Participant Configuration           | In Progress 80% |
| merge URI spec into ParticipantConfig                | Feedback 80%    |
| allow shallow data copy for converter (...)          | New 0%          |
| Qt-based graphical event logger                      | In Progress 80% |
| Check that RemoteServer instances delete (...)       | New 0%          |
| Provide Contrib Library or Folder for (...)          | New 0%          |
| Consider using git subtrees instead (...)            | New 0%          |
| Symlinks/Aliases for Scopes                          | Feedback 0%     |
| RSB XML Support                                      | RSB XML Support |
| Robotics Service Bus - rsb-0.18                      | rsb-0.18 30%    |
| Add a plugin which registers the (...)               | Feedback 50%    |
| RSBag  | RSBag           |
| Robotics Service Bus - rsb-0.18                      | rsb-0.18 30%    |
| Which timestamps should be set (...)                 | In Progress 30% |
| Newer tool versions should be able (...)             | In Progress 50% |
| Computation of channel format is (...)               | New 0%          |

|   |                        |
|---|------------------------|
| <b>Extend Elan backend</b>              | <b>In Progress 20%</b> |
| Support proper temporal intervals (...) | <b>New 0%</b>          |
| Support linked media files (...)        | <b>In Progress 40%</b> |
| <b>Allow limiting recording time</b>    | <b>New 0%</b>          |
| bag record: Make status output (...)    | <b>In Progress 50%</b> |
| Minimal support for ROSbag file (...)   | <b>In Progress 60%</b> |
| Support explicit backend selection      | <b>New 0%</b>          |
| Store start and end timestamp of (...)  | <b>New 0%</b>          |
| bag record: Start timestamp for (...)   | <b>New 0%</b>          |
| Allow to deduplicate participants (...) | <b>New 0%</b>          |
| Bag as bus server crashes in case (...) | <b>New 0%</b>          |
| Events with same timestamps are (...)   | <b>In Progress 20%</b> |
| Flush indices based on combined (...)   | <b>New 0%</b>          |
| show-progress online help doesn't (...) | <b>New 0%</b>          |
| Allow to specify output stream (...)    | <b>New 0%</b>          |
| <b>Robotics Service Bus - rsb-1.0</b>   | <b>rsb-1.0 16%</b>     |
| <b>Verify Elan backend</b>              | <b>New 0%</b>          |
| Use data type definitions stored (...)  | <b>In Progress 30%</b> |
| Rename bag-merge -> bag-transform       | <b>In Progress 60%</b> |
| Support C++ as a client language        | <b>In Progress 50%</b> |
| Support Java as a client language       | <b>New 0%</b>          |
| Document C++ client API                 | <b>New 0%</b>          |
| Document Java client API                | <b>New 0%</b>          |
| Add TYPE block to TIDELog backend       | <b>In Progress 20%</b> |
| Add META block to TIDELog backend       | <b>In Progress 20%</b> |