RSBag - Tasks #520
Serialize RSB events including meta-data

08/23/2011 10:48 AM - J. Moringen

Status:	Resolved		**Start date:**	08/23/2011
Priority:	Normal		**Due date:**	
Assignee:	J. Moringen		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:	0.5			

Description

Related issues:		
Related to Robotics Service Bus - Bug # 375: Fragmentation: Do not transmit f...	**Resolved**	06/20/2011

Associated revisions

Revision d88afebe - 08/23/2011 02:18 PM - J. Moringen

Integrated channel transform mechanism

refs #520

- src/protocol.lisp (%make-channel): added parameter transform;
    updated documentation string
    (%make-channel-transform): new generic function; create an
    associated transform for a channel
- src/channel.lisp (channel::transform): new slot; stores the
    transform of a channel
    (entry channel integer): added keyword parameter transform; apply
    transform if non-nil
    (setf entry t channel local-time:timestamp): likewise
- src/bag.lisp (shared-initialize :after bag t): make a channel
    transform when making a channel
    (setf bag-channel list bag string): added keyword parameter
    transform; pass transform to `%make-channel'
    (%make-channel bag string t list): added transform parameter; pass
    transform to created channel
    (%make-channel-transform): new method; create a channel transform
    based on the type property of the channel meta-data
- src/synchronized-bag.lisp
    (%make-channel synchronized-bag string list t): added transform
    parameter
- src/package.lisp (package rsbag): added used package rsbag.transform
- src/backend/tidelog/file.lisp
    (put-channel file integer string list): apply `encode-type' to
    channel type prior to serialization
    (make-channel): apply `decode-type' to channel type
    (encode-type): convert channel type to a serializable form
    (decode-type): decode channel type from serializable form
- src/backend/tidelog/package.lisp (package rsbag.backend.tidelog):
    added used package split-sequence
- cl-rsbag.asd (system cl-rsbag): added system dependency on
    split-sequence

Revision 9264e415 - 08/23/2011 02:18 PM - J. Moringen

Added RSB event (de)serialization in src/transform/rsb-event.lisp

refs #520

- src/transform/rsb-event.lisp: new file; contains a transform
  that (de)serializes RSB events
- src/transform/package.lisp (package rsbag.transform): added used
  package iterate
- cl-rsbag.asd (system cl-rsbag): added defsystem dependency on
  cl-protobuf; added rsb-serialization module with data directory and
  file src/transform/rsb-event.lisp; added dependency of module rsb on
  module rsb-serialization

Revision 97662b30 - 08/23/2011 04:44 PM - J. Moringen

Added participant-converter in src/protocol.lisp

refs #520

- src/protocol.lisp (participant-converter): new generic function;
  return the converter used by a participant for a given wire-type
  (participant-converter :around t t): new method; signal an error if
  the next method does not produce a result
- src/participant.lisp (participant-converter t t): new method; try to
  obtain a requested converter from the connectors of a participant
- src/package.lisp (package rsb): added exported symbol
  participant-converter

Revision 6c9a2ed7 - 08/23/2011 04:44 PM - J. Moringen

Fixed %make-channel-transform in src/bag.lisp

refs #520

- src/bag.lisp (%make-channel-transform bag string list): use
  `make-transform' correctly

Revision 6f9db3a3 - 08/23/2011 04:44 PM - J. Moringen

Added channel transform construction in src/rsb/construction.lisp

refs #520

- src/rsb/construction.lisp (events->bag listener bag): added keyword
  parameter wire-schema; use wire-schema parameter to construct a
  channel transform
  (define-make-listener-method): removed
  (events->bag uri bag): extract and process wire-schema URI option
  (events->bag string bag): delegate to URI-specialized method
- src/rsb/package.lisp (package rsbag.rsb): added used package
  rsbag.transform

Revision 5e1ac011 - 08/23/2011 04:44 PM - J. Moringen

Fixed channel transform construction

refs #520

- src/bag.lisp (%make-channel-transform bag string list): removed
  special case for RSB-specific transform
- src/transform/protocol.lisp (make-transform): &rest args do not have
  to be keyword arguments anymore
  (make-transform symbol): likewise
- src/transform/rsb-event.lisp (toplevel): removed leftover optimize

declamation

(make-transform eql :rsb-event): new method; handle arguments and delegate to `find-transform-class'

- src/rsb/construction.lisp (events->bag listener bag): convert wire-schema argument to keyword

Revision cd7ed8e4 - 08/23/2011 04:44 PM - J. Moringen

Added channel meta-data in src/{util,channel}.lisp

fixes #520

- src/util.lisp: new file; contains utilities used in the cl-rsbag system
- src/channel.lisp (channel): added superclass plist-meta-data-mixin (channel::meta-data): added reader channel-meta-data
- src/bag.lisp (%make-channel bag string t list): pass meta-data to constructed channel instance
- src/package.lisp (package rsbag): added exported symbol meta-data-count, meta-data-keys, meta-data-values, meta-data-plist, meta-data-alist and channel-meta-data
- src/rsb/package.lisp (package rsbag.rsb): added shadowing imports rsbag symbols meta-data-count, meta-data-keys, meta-data-values, meta-data-plist and meta-data-alist
- cl-rsbag.asd (system cl-rsbag): added file src/util.lisp

History

#1 - 08/23/2011 04:47 PM - J. Moringen

- Status changed from In Progress to Resolved

- % Done changed from 60 to 100

Applied in changeset r56.

#2 - 10/27/2011 08:27 PM - J. Moringen

- Target version changed from rsb-0.10 to 0.5