

Robotics Service Bus - Tasks #335

Add Metadata Support to Events and Notifications

05/27/2011 06:15 PM - J. Moringen

Status:	Resolved	Start date:	01/17/2011
Priority:	Normal	Due date:	
Assignee:	J. Moringen	% Done:	100%
Category:	Common Lisp	Estimated time:	0.00 hour
Target version:	0.3		
Description			
Specification (subject to change) is at [[Events]] .			

Associated revisions

Revision 68c6ed11 - 05/29/2011 08:26 PM - J. Moringen

Added meta-data protocol buffer descriptor in data/MetaData.proto
refs #335

- data/MetaData.proto: new file; protocol buffer descriptor for meta-data
- data/Notification.proto: import MetaData.proto; added field meta_data
- cl-rsb.asd (cl-rsb-and-cl-protobuf): added protocol buffer descriptor file data/MetaData.proto

Revision 9bf7b24d - 05/29/2011 08:26 PM - J. Moringen

Added define-plist-data-mixin macro in src/util.lisp
refs #335

- src/util.lisp (plist-meta-data-mixin): removed; replaced by ``define-plist-data-mixin'`
(meta-data-count plist-meta-data-mixin): likewise
(meta-data-keys plist-meta-data-mixin): likewise
(meta-data-values plist-meta-data-mixin): likewise
(meta-data-plist plist-meta-data-mixin): likewise
(meta-data-alist plist-meta-data-mixin): likewise
(meta-data plist-meta-data-mixin t): likewise
(setf meta-data t plist-meta-data-mixin t): likewise
(define-plist-data-mixin): new macro; define a mixin class that adds a plist of items and corresponding accessors
- src/protocol.lisp (meta-data-count): removed; replaced by ``define-plist-data-mixin'`
(meta-data-keys): likewise
(meta-data-values): likewise
(meta-data-plist): likewise
(meta-data-alist): likewise
(meta-data): likewise
(setf meta-data): likewise
- src/event.lisp (define-plist-data-mixin meta-data): new; define mixin class for plist-stored meta-data
(define-plist-data-mixin timestamp): new; define mixin class for plist-stored timestamps
(event): added superclass ``plist-timestamp-mixin'`

(event::timestamp): specify accessor for timestamp slot

- src/package.lisp (package rsb): added exported symbols meta-data-count, timestamp, timestamp-count, timestamp-keys, timestamp-values, timestamp-plist, timestamp-alist and event-timestamps

Revision 38cef871 - 05/29/2011 10:49 PM - J. Moringen

Added origin slot to event class in src/event.lisp

refs #335

- src/event.lisp (event): updated documentation string
(event::origin): new slot; stores the id of the participant from which the event originated
(event=): added keyword parameter compare-origins?
- src/informer.lisp (send informer event): set event's origin to the id of the sending informer instance
- src/package.lisp (package rsb): added exported symbol event-origin
- src/transport/spread/conversion.lisp (one-notification->event): retrieve origin of the event from the meta-data part of the notification
(event->notifications): pass origin of the event to `make-notification`
(make-notification): added origin parameter; create a meta-data instance containing the origin id and add it to the notification

Revision c00eaac4 - 05/29/2011 10:49 PM - J. Moringen

Added timestamp support in src/event.lisp, .../spread/conversion.lisp

refs #335

- src/event.lisp (event): updated documentation string
(shared-initialize :before event t): changed initialize-instance -> shared-initialize
(shared-initialize :after event t): set :create timestamp to current time unless otherwise instructed
(event=): added parameter compare-timestamps; compare the timestamps specified via the parameter
- src/transport/spread/conversion.lisp (one-notification->event): request the event instance to be created without timestamp; set :create, :send and :receive timestamps afterwards
(event->notifications): pass timestamps of the event to `make-notification`
(make-notification): added timestamps parameter; store the timestamps in the meta-data part of the notification
(timestamp->unix-microseconds): new function; helper function to convert timestamp instance to a single uint64
(unix-microseconds->timestamp): new function; opposite direction
- cl-rsb.asd (system cl-rsb): added dependency on system local-time

Revision 7d00b771 - 05/29/2011 11:30 PM - J. Moringen

Fixed conversion bugs in src/transport/spread/conversion.lisp

refs #335

- src/transport/spread/conversion.lisp (one-notification->event): be

prepared for meta-data or parts of it being absent from the notification
(event->notifications): pass timestamps to `make-notification` for multi-fragment notifications

Revision 981f9750 - 05/29/2011 11:37 PM - J. Moringen

Another fix in src/transport/spread/conversion.lisp
refs #335

- src/transport/spread/conversion.lisp (one-notification->event):
fixed test for sender-id presence zerop -> empty

Revision a94ba075 - 05/31/2011 09:46 AM - J. Moringen

Support "userTimes" in src/transport/spread/conversion.lisp
fixes #335

- src/transport/spread/conversion.lisp (one-notification->event):
extract user-time records and store as timestamps
(make-notification): use string names of meta data item keys

History

#1 - 05/27/2011 06:58 PM - J. Moringen

- *Subject changed from Add Metadata Support to Event Notifications to Add Metadata Support to Events and Notifications*

#2 - 05/28/2011 11:22 PM - J. Moringen

- *Status changed from New to In Progress*
- *% Done changed from 0 to 20*

#3 - 05/31/2011 09:48 AM - J. Moringen

- *Status changed from In Progress to Resolved*
- *% Done changed from 20 to 100*

Applied in changeset r1313.