Robotics Service Bus - Bug #1497
Receive and Deliver-Timestamps not set correctly

05/13/2013 11:00 PM - J. Wienke

Status:	Resolved		**Start date:**	05/13/2013
Priority:	Normal		**Due date:**	
Assignee:	J. Moringen		**% Done:**	100%
Category:	Common Lisp		**Estimated time:**	0.00 hour
Target version:	rsb-0.9			

Description

I am not entirely sure which part is causing this, but I am using bag-play to replay old log files and messages from these log files are synced using timesync. Looking at the output of timesync it seems that receive and deliver timestamps are not set properly:

```
Event
  Scope       : /my/out/sync/vfoa/
  Id          : 2D8F70FA-E789-5BA6-99FA-A8ADC3FF310A
  Sequence-Number: 39
  Origin      : 1D50F9F3-25F1-45D8-A65C-933A5F9843C4
  Method      : N/A
Timestamps
  Create : 2013-05-13T17:31:33.336956+02:00
  Send   : 2013-05-13T17:31:33.337014+02:00
  Receive: 2013-05-13T17:31:33.390350+02:00
  Deliver: 2013-05-13T17:31:33.390356+02:00
Meta-Data
  Rsb.Transport.Payload-Size: 808
  Rsb.Transport.Wire-Schema : .rsb.protocol.collections.EventsByScopeMap
  Rsb.Wire-Schema           : .rsb.protocol.collections.EventsByScopeMap
Causes
  DF9DA95A-2B53-55F0-A294-6063345D347A
  B1AF34F2-6FD2-5231-A446-49B9A6E697CC
Payload (RSB.PROTOCOL.COLLECTIONS:EVENTS-BY-SCOPE-MAP)
  Events by Scope (2 Scopes)
    Scope "/monitoring/augit/volhumavipsreleasesy3demobinrsbvfoacomponent/3193/"
      Event
        Scope       : /monitoring/augit/volhumavipsreleasesy3demobinrsbvfoacomponent/3193/
        Id          : DF9DA95A-2B53-55F0-A294-6063345D347A
        Sequence-Number: 61
        Origin      : E575EEA6-92C8-4170-85C7-178AE20A62A3
        Method      : N/A
      Timestamps
        Create      : 2013-05-13T17:31:33.228427+02:00
        Send        : 2013-05-13T17:31:33.228465+02:00
        Receive     : 2013-02-20T14:53:52.674019+01:00
        Deliver     : 2013-02-20T14:53:52.674022+01:00
        Monitor-Finished: 2013-02-20T14:53:52.668788+01:00
```

You can see that the receive and deliver timestamps are from the original recording time even though the events were sent by bag-play today and hence also received today. I suspekt what happens is that bag-play already sets the timestamps before sending and the CPP socket transport on the receiving side does not override these timestamps.

Associated revisions

Revision 885a8b84 - 05/28/2013 07:47 PM - J. Moringen

Format user timestamps distinguishably in formatting/event-style-meta-data.lisp

refs #1497

- formatting/util.lisp (header): updated copyright
  (timestamp-name): new function; prepend "*" to names of user
  timestamps
  (framework-timestamp?): new function; predicates which indicates
  whether a timestamp name names a framework timestamp
- formatting/event-style-meta-data.lisp
  (format-event event style-meta-data): apply `timestamp-name' to
  timestamp names
- test/formatting/style-meta-data.lisp
  (test style-meta-data-root::smoke): added a case which checks
  formatting of user timestamps

Revision 3186c41c - 05/29/2013 12:39 AM - J. Moringen

Fixed separation of framework- and user-timestamps in src/transport/*/conversion.lisp

refs #1497

- src/transport/socket/conversion.lisp (make-notification): be careful
  to not store any framework timestamps in the user timestamp storage
- src/transport/spread/conversion.lisp (header): updated copyright
  (make-notification): like above
- test/informer.lisp (test informer-root::send/event): ignore all
  framework timestamps

History

#1 - 05/27/2013 05:21 PM - J. Wienke

- Category changed from Socket Transport to Common Lisp

- Assignee set to J. Moringen

Generally the problem does not exist in the core but is merely a display problem of the cl logger. What happens is that bag play puts the original timestamps into the user timestamps and the logger cannot handle framework and user timestamps with the same names.

#2 - 05/29/2013 12:10 AM - J. Moringen

- Status changed from New to In Progress

- % Done changed from 0 to 30

#3 - 05/29/2013 02:06 AM - J. Moringen

- Status changed from In Progress to Feedback

- % Done changed from 30 to 100

@Johannes: Please check whether these changes fix the problem for you.

#4 - 05/29/2013 04:00 PM - J. Wienke

- Status changed from Feedback to Resolved

Looks correct to me now.

#4 - 05/29/2013 04:00 PM - J. Wienke

- Status changed from Feedback to Resolved