

## Robotics Service Bus - Enhancement #1918

### Add an option to logger monitor style to discard empty scopes

07/18/2014 05:30 PM - J. Wienke

<b>Status:</b>	Resolved	<b>Start date:</b>	07/18/2014
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	J. Moringen	<b>% Done:</b>	100%
<b>Category:</b>	Common Lisp Tools	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
Please add an option to the CL logger to remove scopes from the monitor (and possibly other comparable styles like timeline) view that have not received messages for n seconds.			

#### Associated revisions

##### Revision 18940168 - 07/21/2014 05:33 AM - J. Moringen

Pruning of inactive sub-styles in formatting/style-mixins.lisp

fixes #1918

Sub-styles of monitor styles track their most recent activity via ``activity-tracking-mixin'` and the monitor style prunes sub-styles via ``activity-based-sub-style-pruning-mixin'`.

- formatting/protocol.lisp (style-prune-predicate): new generic function; return prune predicate of a style  
(self style-prune-predicate): new generic function; set prune predicate of a style  
(prune-sub-styles): new generic function; remove sub-style according to prune predicate
- formatting/style-mixins.lisp (activity-tracking-mixin): new class; stores time of most recent activity  
(format-event :around t activity-tracking-mixin t): new method; update time of most recent activity  
(sub-style-pruning-mixin): new class; adds pruning of dynamically created sub-styles  
(prune-sub-styles sub-style-pruning-mixin): new method; prune sub-styles according to prune predicate  
(format-event :before eql :trigger sub-style-pruning-mixin t): new method; prune sub-styles before producing output  
(activity-based-sub-style-pruning-mixin): new class; specialized sub-style pruning based on time of most recent activity  
(shared-initialize :after activity-based-sub-style-pruning-mixin t): new method; accept pruning threshold or predicate  
(prune-after): new function; helper function for constructing activity-time-based pruning predicates
- formatting/event-style-monitor.lisp (basic-monitor-line-style): new class; statistics columns with activity tracking  
(basic-monitor-style): added superclass  
``activity-based-sub-style-pruning-mixin'`  
(make-sub-style-entry basic-monitor-style t): instantiate

`basic-monitor-line-style`

- formatting/package.lisp (package rsb.formatting): added exported symbols style-prune-predicate, prune-sub-styles, sub-style-pruning-mixin, activity-based-sub-style-pruning-mixin, activity-tracking-mixin and style-last-activity
- test/formatting/style-mixins.lisp  
(test suite activity-based-sub-style-pruning-mixin-root): new test suite; for `activity-based-sub-style-pruning-mixin` class  
(test activity-based-sub-style-pruning-mixin-root::construct): new test; test construction of `activity-based-sub-style-pruning-mixin` instances
- test/formatting/package.lisp (package rsb.formatting.test): added used package more-conditions

## Revision 73784a7f - 07/21/2014 05:53 AM - J. Moringen

Mention sub-style pruning in CL logger in news.rst

refs #1918

- news.rst (RSB 0.11): mention that the CL logger can now prune sub-styles after inactivity

## History

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### #1 - 07/21/2014 06:07 AM - J. Moringen

- Status changed from *New* to *Resolved*
- % Done changed from 0 to 100

Applied in changeset commit:rsb-tools-cl|18940168ac72d10e99f1401ddcaf8a43a6eaf382.

### #2 - 07/21/2014 06:09 AM - J. Moringen

Configure pruning like this:

```
$ rsb-loggercl --style 'monitor/type :prune-after 5' socket:
```

Pruning threshold is in seconds.

### #3 - 07/21/2014 10:40 AM - J. Wienke

Nice, thanks