art - Milestone #1091

Review all signal emission in the light of sentry considerations and exception safety.

03/28/2011 03:19 PM - Christopher Green

Status:	Accepted		**Start date:**	03/28/2011
Priority:	Normal		**Due date:**	09/30/2013
Assignee:			**% Done:**	0%
Category:	Infrastructure		**Estimated time:**	16.00 hours
Target version:			**Spent time:**	0.00 hour
Experiment:	-			

Description

Most signals are emitted currently using sentries, meaning that any post-action function is always called, possibly during stack-unwinding during the throwing of an exception. This is not appropriate in all cases, and when used places an additional undocumented constraint on any post-action callback so called, namely that it **cannot** throw. This should be considered as part of a wider review of signals in the framework.

Related issues:

Related to art - Necessary Maintenance #946: Review and provide precise defin...	**Accepted**	**02/08/2011**	**09/30/2013**
Related to art - Feature #956: Testing of signal emission is needed	**Accepted**	**02/10/2011**	**09/30/2013**

History

#1 - 12/09/2011 03:27 PM - Walter E Brown

- Status changed from New to Accepted

#2 - 07/25/2013 01:54 PM - Christopher Green

- Tracker changed from Idea to Milestone

- Due date set to 09/30/2013

- Estimated time set to 16.00 h

- Experiment - added

It should be possible, given the structure of GlobalSignal and LocalSignal, to wrap a watchpoint in such a way that any and all exceptions are caught before propagating up to the sentry.

#3 - 04/17/2015 10:20 AM - Kyle Knoepfel

- Target version set to 521

#4 - 10/23/2017 12:12 PM - Kyle Knoepfel

- Target version deleted (521)