

## MARTe2-core - User story #116

**MARTe-EX-F-1.3.6: When awaiting on any type of semaphore the framework developer shall know if the lock was released due to a timeout or due to any type of error.**

29.05.2015 14:18 - André Neto

<b>Status:</b> Closed	<b>Start date:</b>
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 8.00 hours
<b>Target version:</b> 0.2	<b>Spent time:</b> 0.00 hour
<b>Git branch (link):</b>	<b>SVN commit (link/?p=rev):</b>
<b>Git merge to develop (link):</b>	

### Description

Implement requirement MARTe-EX-F-1.3.6 based on the original MARTe implementation

Note: It is crucial that framework developers know why the shared resource was unblocked. Usually, when this happens due to a timeout or an error, the shared resource is no longer valid.

### Source code files modified

- Source/Core/L0Portability/EventSem.cpp
- Source/Core/L0Portability/EventSem.h
- Source/Core/L0Portability/FastPollingMutexSem.h
- Source/Core/L0Portability/GeneralDefinitions.h
- Source/Core/L0Portability/MutexSem.cpp
- Source/Core/L0Portability/MutexSem.h
- Source/Core/L0Portability/OperatingSystem/Linux/EventSemOS.h
- Source/Core/L0Portability/OperatingSystem/Linux/MutexSemOS.h
- Source/Core/L0Portability/OperatingSystem/Windows/EventSemOS.h
- Source/Core/L0Portability/OperatingSystem/Windows/MutexSemOS.h

### Architecture & design review

**Date of the review:** 12/06/2015

**Person who did the review:** André Neto

**Version of architecture & design document:** N/A. As per the original MARTe implementation, this is a support function and does not require formal design in UML.

**Result of review:** N/A

**List of non-conformities:** N/A

### Code and documentation review

**Date of the review:** 24/07/2015

**Person who did the review:** Ivan Herrero

**Result of review:** PASS

**List of non-conformities:** N/A

### Unit test review

**Date of the review:** 24/07/2015

**Person who did the review:** Ivan Herrero

**Result of coverage tests review:** PASS

**Result of functional tests review:** PASS

**Result of review:** PASS

**List of non-conformities:** N/A

Unit testing coverage note: Some error paths not exercised

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## Associated revisions

### Revision ec871674 - 23.06.2015 11:58 - Giuseppe Ferrò

Added the possibility to know the error type in any function (moved ErrorType enum in GeneralDefinitions.h).

Added the error type return support in all semaphore objects.

#116

### Revision a474c564 - 25.06.2015 14:26 - Giuseppe Ferrò

Corrected files accordingly with revision.

#116

### Revision 192c81cf - 26.06.2015 12:01 - Giuseppe Ferrò

Added MutexSem unit tests.

Renamed previous tests as integration tests.

#116 #115 #117 #114

### Revision 367679ea - 26.06.2015 12:03 - Giuseppe Ferrò

Added EventSem tests.

Renamed previous tests as integration tests.

#116 #115 #117 #118

### Revision 08f24f50 - 26.06.2015 12:05 - Giuseppe Ferrò

Added FastPollingMutexSem tests.

Renamed previous tests as integration tests.

#116 #115 #117 #119

### Revision c36415cb - 02.07.2015 14:42 - André Neto

Updated the FastPollingMutexSem against the agreed unit testing strategy. #115 and #116

### Revision 2b194f38 - 13.07.2015 10:24 - Llorenç Capella

US #116 EventSemTest

Note that the work is not completed yet.

List of changes:

- TestCopyConstructor2Sem added.

### Revision 3860c7d6 - 24.07.2015 12:05 - Ivan Herrero

#116 - Minor formatting corrections (following template rules)

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## History

### #1 - 03.06.2015 11:22 - Riccardo Vitelli

- Target version changed from Backlog to 0.1

- Start date deleted (29.05.2015)

- Estimated time set to 8.00 h

### #2 - 12.06.2015 10:31 - Riccardo Vitelli

- Status changed from New to Arch: Rev

**#3 - 12.06.2015 11:16 - Riccardo Vitelli**

- Assignee set to André Neto

**#4 - 12.06.2015 18:30 - André Neto**

- Description updated

**#5 - 18.06.2015 09:36 - Ivan Herrero**

- Status changed from Arch: Rev to Code: Impl

**#6 - 18.06.2015 09:47 - Ivan Herrero**

- Assignee changed from André Neto to Giuseppe Ferro

**#7 - 18.06.2015 12:41 - Ivan Herrero**

- Assignee changed from Giuseppe Ferro to Ivan Herrero

**#8 - 18.06.2015 12:42 - Ivan Herrero**

- Status changed from Code: Impl to Code: Rev

**#9 - 18.06.2015 17:30 - Ivan Herrero**

- Description updated

**#10 - 22.06.2015 14:39 - Ivan Herrero**

- Assignee deleted (Ivan Herrero)

**#11 - 22.06.2015 14:39 - Ivan Herrero**

- Status changed from Code: Rev to Code: Impl

**#12 - 22.06.2015 17:31 - Riccardo Vitelli**

- Assignee set to Giuseppe Ferro

**#13 - 22.06.2015 17:33 - Riccardo Vitelli**

- Status changed from Code: Impl to Code: Rev

**#14 - 22.06.2015 17:34 - Riccardo Vitelli**

- Assignee changed from Giuseppe Ferro to Ivan Herrero

**#15 - 22.06.2015 17:39 - Riccardo Vitelli**

- Status changed from Code: Rev to Code: Impl

**#16 - 22.06.2015 17:39 - Riccardo Vitelli**

- Assignee changed from Ivan Herrero to Giuseppe Ferro

**#17 - 23.06.2015 17:56 - André Neto**

- Status changed from Code: Impl to Code: Rev

**#18 - 25.06.2015 14:54 - Ivan Herrero**

- Description updated

Code and documentation review made on revision ec87167 with result "FAIL".

**#19 - 25.06.2015 17:20 - Riccardo Vitelli**

- Assignee deleted (Giuseppe Ferro)

**#20 - 25.06.2015 17:21 - Riccardo Vitelli**

- Status changed from Code: Rev to Unit: Impl

**#21 - 26.06.2015 11:43 - Giuseppe Ferro**

- Assignee set to Giuseppe Ferro

**#22 - 02.07.2015 18:06 - Riccardo Vitelli**

- Target version changed from 0.1 to 0.2

**#23 - 07.07.2015 11:24 - Riccardo Vitelli**

- Assignee deleted (Giuseppe Ferro)

**#24 - 10.07.2015 17:03 - Llorenc Capella**

- Assignee set to Llorenc Capella

**#25 - 15.07.2015 11:00 - Llorenc Capella**

- Status changed from Unit: Impl to 13

**#26 - 15.07.2015 11:02 - Llorenc Capella**

- Status changed from 13 to Unit: Rev

**#27 - 15.07.2015 11:02 - Llorenc Capella**

- Assignee deleted (Llorenc Capella)

**#28 - 23.07.2015 11:46 - Ivan Herrero**

- Assignee set to Ivan Herrero

**#29 - 24.07.2015 08:34 - Ivan Herrero**

- Assignee deleted (Ivan Herrero)

**#30 - 24.07.2015 10:26 - Ivan Herrero**

- Assignee set to Ivan Herrero

**#31 - 24.07.2015 12:15 - Ivan Herrero**

- Status changed from Unit: Rev to Closed

- Assignee deleted (Ivan Herrero)

- Description updated

Unit test review made on revision 3860c7d.

No branch used used for this used story.