

## MARTe2-core - User story #245

### Linux TCP socket

20.10.2015 11:18 - André Neto

<b>Status:</b> Closed	<b>Start date:</b> 20.10.2015
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 0.7	<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 the Linux TCP socket stream based on the previous MARTe implementation.

### Source code files modified

FileSystem/Environment/Linux/InternetAddressCore.h  
FileSystem/Environment/Linux/InternetServiceCore.h  
FileSystem/Environment/Linux/SocketSelectCore.h  
FileSystem/Environment/Linux/SocketCore.h  
FileSystem/InternetAddress.\*  
FileSystem/InternetService.\*  
FileSystem/BasicSocket.\*  
FileSystem/BasicTCPSocket.\*  
FileSystem/SocketSelect.\*

### Architecture & design review

**Date of the review:** 23/10/2015

**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:** 09/11/2015

**Person who did the review:** R. Vitelli

**Result of review:** PASS

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

### Unit test review

**Date of the review:** 09/11/2015

**Person who did the review:** R. Vitelli

**Result of coverage tests review:** PASS

**Result of functional tests review:** PASS

**Result of review:** PASS

**List of non-conformities:**

The current implementation uses a temporary version of SocketSelect, which will be further developed in the following sprints. For this reason the low code coverage of SocketSelect is not considered an issue.

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**Associated revisions**

**Revision d794cb30 - 26.10.2015 17:02 - Giuseppe Ferro**

Fixed compile errors for TCPSocket.h  
#245

**Revision d597fc0d - 27.10.2015 09:29 - Giuseppe Ferro**

Merge remote-tracking branch 'origin/#249\_BufferedStreamGenerator' into #245\_Linux\_TCP\_Socket

**Revision d206bf28 - 27.10.2015 09:59 - Llorenç Capella**

#245\_Linux\_File

BasicFile.h and BasicFile.cpp created.  
Make files modified to include the new files.

**Revision 78a86d38 - 28.10.2015 11:18 - Giuseppe Ferro**

-Lint and documentation of SocketSelect.\*  
#245

**Revision 828e72a4 - 28.10.2015 13:26 - Giuseppe Ferro**

Added error reporting.  
#245

**Revision 93622079 - 28.10.2015 18:35 - Giuseppe Ferro**

Added InetAddress tests.  
#245

**Revision f54d500e - 28.10.2015 20:52 - Giuseppe Ferro**

Renamed InetAddress to InternetHost  
#245

**Revision 6345a0c1 - 28.10.2015 21:01 - Giuseppe Ferro**

Merged with local #245 to apply renaming from InetAddress to InternetHost

**Revision 122d6fe1 - 29.10.2015 11:52 - Giuseppe Ferro**

Removed copy constructor from TCP socket  
#245

**Revision c159e146 - 29.10.2015 13:43 - Giuseppe Ferro**

Changes in BasicSocket.h  
- GetSource and GetDestination return by copy because the access to the source and destination attributes is allowed now to the children.  
- Removed GetConnectionSocket to avoid any access to the internal socket handle which is not necessary.  
- Put SocketSelect as a friend of BasicSocket because it needs the access to the internal socket handle.  
#245

**Revision 2d38b609 - 29.10.2015 16:13 - Giuseppe Ferro**

#245 Fixed some lint warnings.

**Revision 42eb9a75 - 29.10.2015 16:14 - Giuseppe Ferro**

Merge remote-tracking branch 'origin/#247\_Linux\_UDP\_Socket' into #245\_Linux\_TCP\_Socket

**Revision 4af0ced9 - 29.10.2015 16:22 - Giuseppe Ferro**

Merge remote-tracking branch 'origin/#247\_Linux\_UDP\_Socket' into #245\_Linux\_TCP\_Socket

Conflicts:

Source/Core/FileSystem/L1Portability/BasicSocket.h

Source/Core/FileSystem/L1Portability/Environment/Linux/BasicTCPSocket.cpp

**Revision c37169da - 02.11.2015 17:31 - Giuseppe Ferro**

#245 BasicTCPSocket tests done.

**Revision 16f3804e - 02.11.2015 17:32 - Giuseppe Ferro**

Merge branch '#245\_Linux\_TCP\_Socket' of <https://vcis-gitlab.f4e.europa.eu/aneto/MARTe2.git> into #245\_Linux\_TCP\_Socket

**Revision 1e22bd1b - 02.11.2015 17:41 - Giuseppe Ferro**

#245 Documentation improved

**Revision 67aba904 - 02.11.2015 17:59 - Giuseppe Ferro**

#245 Fixed lint warnings

**Revision b2e1e817 - 02.11.2015 18:20 - Giuseppe Ferro**

#245 Removed two useless lint exception comments.

**Revision a2ce9bfa - 03.11.2015 16:32 - Giuseppe Ferro**

Merge remote-tracking branch 'origin/#247\_Linux\_UDP\_Socket' into #245\_Linux\_TCP\_Socket

Conflicts:

Source/Core/FileSystem/L1Portability/Environment/Linux/BasicTCPSocket.cpp

**Revision 4a0e2e24 - 03.11.2015 16:47 - Giuseppe Ferro**

#245 Clean and improved tests

**Revision dc71fbba - 03.11.2015 16:50 - Giuseppe Ferro**

#245 Removed an unused header file

**Revision 3bb3de75 - 03.11.2015 16:56 - Giuseppe Ferro**

#245 Fixed test warnings

**Revision ca9a1dbe - 04.11.2015 20:46 - Giuseppe Ferro**

#245 Fixed an error in tests

**Revision 151e375d - 05.11.2015 14:37 - Riccardo Vitelli**

#245 Fixed typos.

**Revision 7469c302 - 05.11.2015 16:17 - Giuseppe Ferro**

#245 Removed two header inclusions

**Revision e9b83168 - 05.11.2015 16:18 - Giuseppe Ferro**

Merge branch '#245\_Linux\_TCP\_Socket' of <https://vcis-gitlab.f4e.europa.eu/aneto/MARTe2.git> into #245\_Linux\_TCP\_Socket

**Revision 06a030e3 - 05.11.2015 16:29 - Giuseppe Ferro**

#245 Improved error reporting

**Revision 24c2b762 - 05.11.2015 18:11 - Giuseppe Ferro**

#245 Work in progress.

**Revision ebf0193d - 05.11.2015 23:41 - Giuseppe Ferro**

#245 Fixed the timeout

**Revision f12377da - 06.11.2015 09:36 - Giuseppe Ferro**

#245 Removed a test wich fails on other machines because of different localhost

**Revision aebf3659 - 06.11.2015 12:57 - Giuseppe Ferro**

#245 Fixed tests and fixed makefile in order to avoid clean each time.

**Revision e9a1fd81 - 06.11.2015 13:13 - Giuseppe Ferro**

#245 Improved makefile.

**History**

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**#1 - 23.10.2015 13:21 - André Neto**

- Status changed from New to Code: Impl

**#2 - 23.10.2015 13:24 - André Neto**

- Description updated

**#3 - 23.10.2015 13:29 - André Neto**

- Target version set to 0.7

**#4 - 26.10.2015 15:27 - Giuseppe Ferro**

- Assignee set to Giuseppe Ferro

**#5 - 28.10.2015 11:18 - Giuseppe Ferro**

- Status changed from Code: Impl to Code: Rev

**#6 - 28.10.2015 11:22 - Giuseppe Ferro**

- Description updated

- Assignee deleted (Giuseppe Ferro)

code implementation done: 78a86d3

**#7 - 29.10.2015 12:04 - Riccardo Vitelli**

- Assignee set to Riccardo Vitelli

**#8 - 29.10.2015 17:29 - Riccardo Vitelli**

- Description updated

**#9 - 05.11.2015 14:37 - Riccardo Vitelli**

- Status changed from Code: Rev to Unit: Impl

**#10 - 05.11.2015 14:38 - Riccardo Vitelli**

- Assignee changed from Riccardo Vitelli to Giuseppe Ferro

**#11 - 09.11.2015 09:44 - Riccardo Vitelli**

- Status changed from Unit: Impl to Unit: Rev

**#12 - 09.11.2015 09:44 - Riccardo Vitelli**

- Assignee changed from Giuseppe Ferro to Riccardo Vitelli

**#13 - 09.11.2015 10:21 - Riccardo Vitelli**

- Description updated

- Assignee deleted (Riccardo Vitelli)

**#14 - 09.11.2015 10:21 - Riccardo Vitelli**

- *Status changed from Unit: Rev to Closed*

**#15 - 30.11.2015 11:47 - Ivan Herrero**

- *Description updated*