

**CERTI - Anomalies : Compiler - dimanche 23.03.2008 à 11:48 UTC****bugs #22578: Infinite wait after join**

Submitted on: jeudi 13.03.2008 à 10:16 UTC
Status: Fixed
Release: CVS

Submitted by: Mathé <jmm>
Closed on: samedi 22.03.2008 à 15:47 UTC
Assigned to: ROUSSELOT <rousse>
Fixed Release: 3.2.6

Original Submission:

RTIa doesn't return after a join with the same federation/federate name.

Dernier commentaire posté (par ROUSSELOT <rousse>) :

Oui, je pense que le probleme est resolu.
Yes, I believe bug is corrected.
JY

**bugs #22509: RTI internal error on destroy federation**

Submitted on: vendredi 07.03.2008 à 16:08 UTC
Status: Fixed
Release: CVS

Submitted by: ROUSSELOT <rousse>
Closed on: samedi 22.03.2008 à 15:47 UTC
Assigned to: ROUSSELOT <rousse>
Fixed Release: 3.2.6

Original Submission:

First application does :
create federation toto
join federation
resign federation
and stops...

Second application does :
destroy federation toto
RTI internal error raises

Dernier commentaire posté (par Mathé <jmm>) :

Issue on this sequence :

- a) SubscribeObjectClassAttributes with a bad attribute name
- b) Request to destroy the Federate (resignFederationExecution)

- 1/ RTIA destructor
- 2/ FederationManagement::~FederationManagement()
- 3/ FederationManagement::resignFederationExecution
- 4/ TimeManagement::setTimeRegulating

Crash on msg.federation = fm->_numero_federation ;
fm is not defined (deleted at 1/)

(file #15248)

**bugs #22491: rtia termination problem**

Submitted on: mercredi 05.03.2008 à 14:27 UTC
Status: Ready For Test
Release: CVS

Submitted by: lionel duroyon <lduroyon>
Closed on: samedi 22.03.2008 à 15:52 UTC
Assigned to: ROUSSELOT <rousse>
Fixed Release: 3.2.6

Original Submission:

when a federate stops its execution, the associated rti process is sometimes staying active.



~~bugs #22292: Reentrance management issue~~

Submitted on: mardi 12.02.2008 à 09:43 UTC

Status: Ready For Test

Release: CVS

Submitted by: r.cuisinier <rcuisinier>

Closed on: samedi 22.03.2008 à 15:48 UTC

Assigned to: Pierre Siron <siron>

Fixed Release: 3.2.6

Original Submission:

When calling a service like getObjectClass from a reflectAttributeValues, an exception is raised (concurrentAccess).

Typically the call tree, causing the error, is :

tick=>reflectAttributeValues=>getObjectClass.

In this case, the call is considered by CERTI as reentrant (local variable is_reentrant is set to true) and thus getObjectClass call is forbidden. This doesn't happen with other RTI and I think this is allowed by HLA.

Dernier commentaire posté (par Eric NOULARD <erk>) :

Here follows a copy from a private message from Raphaël:

The RTI services which are called in a reentrant fashion in our Federate are:

1. inside receiveInteraction callback

* getObjectClass

1. inside reflectattributevalues callback

* getObjectClass

* getObjectClassName

* getAttributeName

We cannot patch or avoid the reentrant problem on the federate side. The former RTI ambassador services are used to get informations in order to realize automatic mapping between:

- an HLA object instance and its attribute

<==> a Delta3D framework actor with its properties.

- an HLA interaction

<==> a framework message

If we want to make Delta3D work with CERTI we need the reentrant feature (at least on the specified services).



~~bugs #22291: getObjectClass HLA service support~~

Submitted on: mardi 12.02.2008 à 09:34 UTC

Status: Fixed

Release: CVS

Submitted by: r.cuisinier <rcuisinier>

Closed on: samedi 22.03.2008 à 15:47 UTC

Assigned to: ROUSSELOT <rousse>

Fixed Release: 3.2.6

Original Submission:

The service

RTI::ObjectClassHandle getObjectClass(RTI::ObjectHandle) is not implemented in the CERTI.


The GET_OBJECT_CLASS enum should be dealt with in Message_R.cc and Message_W.cc for example. That's not the case.

Note : This is a distinct HLA service from GET_OBJECT_CLASS_NAME or GET_OBJECT_CLASS_HANDLE.

Dernier commentaire posté (par ROUSSELOT <rousse>) :

Correction is OK unless use in a Callback.

See reentrance Bug.

 ~~bugs #22286: Compilation error in release mode only (VS2005)~~

Submitted on: lundi 11.02.2008 à 15:58 UTC
Status: Ready For Test
Release: CVS

Submitted by: [r.cuisinier <rcuisinier>](#)
Closed on: samedi 22.03.2008 à 15:51 UTC
Assigned to: [Eric NOULARD <erk>](#)
Fixed Release: 3.2.6

Original Submission:

During the compilation in release mode (VS2005), I have the following error :
"Mes n'est pas membre de PrettyDebug".
The debug version compiles fine.


Dernier commentaire posté (par Eric NOULARD <erk>) :

some #ifndef NDEBUG was missing.
this is now fixed in CVS.

I did set appropriate Release/FixedRelease value.

For Raphaël:

Note that even if the "beta" source/binary certi ARCHIVE
are name 3.2.6xxxx there is no 3.2.6 as of today :=)
When using CVS version please use "CVS" as Release.

 ~~bugs #22090: CERTI don't compile under Windows with DevC++~~

Submitted on: mercredi 23.01.2008 à 12:45 UTC
Status: Works For Me
Release: CVS

Submitted by: [ROUSSELOT <rousse>](#)
Closed on: samedi 22.03.2008 à 15:51 UTC
Assigned to: [ROUSSELOT <rousse>](#)
Fixed Release: 3.2.6

Original Submission:

Compilation error in from certi.hh about lines that are in _WIN32 def. Error on this part :

```
typedef unsigned __int32 uint32_t;  
typedef __int32 int32_t;  
typedef unsigned __int16 uint16_t;  
typedef __int16 int16_t;  
typedef unsigned __int8 uint8_t;  
typedef __int8 int8_t;
```

_WIN32 seems to imply Microsoft Compiler but don't OK for DevC++ compiler.

Eric suggested to add :

```
#ifdef _MSC_VER
```

before all these lines and terminate with :

```
#endif
```

I am going to verify this. It seems OK but... to be continued...

Jean-Yves

Dernier commentaire posté (par ROUSSELOT <rousse>) :


DevC++ compiler doesn't like ansi and pedantic option so it is necessary to modify CMakeLists.txt.

Then Compilation OK

Little typo in libRTI/cmake_install.cmake for libRTI.def to put instead of RTI.def and install (and make package) is OK.

After little verifications about other platforms to-morrow I will commit it.

Jean-Yves

 ~~bugs #21761: class certi::XXXX has virtual functions but non-virtual destructor~~

Submitted on: dimanche 09.12.2007 à 16:23 UTC
Status: Ready For Test
Release: 3.2.5

Submitted by: [Eric NOULARD <erk>](#)
Closed on: samedi 22.03.2008 à 15:49 UTC
Assigned to: [Eric NOULARD <erk>](#)
Fixed Release: 3.2.6

Original Submission:

Patrice reported some compiler warning for some classes:

certi::BasicMessage
certi::Dimension
certi::Message
certi::Named
certi::NetworkMessage
certi::Object
certi::ObjectClass
certi::Parameter
certi::RoutingSpace

PS: those warnings were hidden for some of us using CMake build with gcc AND ccache...
I've just fixed main CMakeLists.txt in order to avoid that.

Dernier commentaire posté (par Eric NOULARD <erk>) :

Those warnings mostly comes from the Named class (plus Object) from which all of them a derived.
I've just fixed it in CVS.



~~bugs #21650: Unwanted (or not) behavior for enableAsynchronousDelivery~~

Submitted on: mardi 27.11.2007 à 12:52 UTC
Status: Fixed
Release: 3.2.5

Submitted by: Eric NOULARD <erk>
Closed on: samedi 22.03.2008 à 15:54 UTC
Assigned to: Pierre Siron <siron>
Fixed Release: 3.2.6

Original Submission:

As already discussed in:
<https://savannah.nongnu.org/task/?6911>

As Christian said:

When invoking the service, ro-messages may be delivered to the federate during any invocation of tick(). BUT this affects only time-constrained federates ,to all non-time-constraint federates all messages are always delivered asynchronously.

Thus, we should check whether if the behavior of current CERTI implementation of RTI::RTIambassador::enableAsynchronousDelivery() time service complies to HLA specifications.

Moreover it seems that if one sendInteraction (or other non command message)

BEFORE calling enableAsynchronousDelivery the invoking federate may be blocked in an endless waiting loop.

Dernier commentaire posté (par Eric NOULARD <erk>) :

We consider this bug fixed as everyone's testcases are OK.



~~bugs #21624: Autotools packaging trouble: cannot install UseCERTI.cmake~~

Submitted on: mercredi 21.11.2007 à 09:54 UTC
Status: Fixed
Release: 3.2.5

Submitted by: Eric NOULARD <erk>
Closed on: samedi 22.03.2008 à 15:49 UTC
Assigned to: Eric NOULARD <erk>
Fixed Release: 3.2.6


Original Submission:

I did forget to update
the certi/Makefile.am extra_DIST part
such that the certi-3.2.5.tar.gz tarball miss
somes files.

You may compile CERTI but
make install will fail.

This is fixed in CVS.
There is an updated beta tarball fixing this too:
<http://download.savannah.gnu.org/releases/certi/beta/certi-3.2.6cvcs.tar.gz>

We may need to release certi-3.2.6 soon and remove
certi-3.2.5 because it may be unusable for most of us.

 bugs #21616: Compilation problem: ISO C++ does not support 'long long'

Submitted on: mardi 20.11.2007 à 08:43 UTC
Status: Fixed
Release: 3.2.5

Submitted by: [Pierre Siron <siron>](#)
Closed on: samedi 22.03.2008 à 15:52 UTC
Assigned to: [Eric NOULARD <erk>](#)
Fixed Release: 3.2.6


Original Submission:

```
g++ --version
g++ (GCC) 4.0.2 20051125 (Red Hat 4.0.2-8)
```

```
SocketTCP.hh:97: error: ISO C++ does not support 'long long'
SocketTCP.hh:98: error: ISO C++ does not support 'long long'
```

Dernier commentaire posté (par Eric NOULARD <erk>) :

There is a beta tarball
which essentially is CERTI 3.2.5 + this bug fix
<http://download.savannah.gnu.org/releases/certi/beta/certi-3.2.6cvcs.tar.gz>

 bugs #21612: RTIA calls unix command "rm" on windows

Submitted on: lundi 19.11.2007 à 16:17 UTC
Status: Fixed
Release: 3.2.4

Submitted by: [Chris Rule <crule>](#)
Closed on: samedi 22.03.2008 à 15:48 UTC
Assigned to: [Eric NOULARD <erk>](#)
Fixed Release: 3.2.5

Original Submission:


When a federation is destroyed, the RTIA library calls the unix command "rm" to remove some temporary files. This command does not exist in Microsoft Windows OS. These calls to system to remove a files should probably be changed to functions unlink on linux (or remove) and _unlink on windows.

Dernier commentaire posté (par Eric NOULARD <erk>) :

Hi Chris,

Please update your CVS tree.
I did correct almost the same errors
you came accross today :=(

This one is here
<http://cvs.savannah.nongnu.org/viewvc/certi/RTIA/FederationManagement.cc?revision=3.36&root=certi&view=markup>

 bugs #21610: Timestamp should be allowed as attribute/parameter name

Submitted on: lundi 19.11.2007 à 15:33 UTC
Status: Ready For Test
Release: CVS

Submitted by: [Chris Rule <crule>](#)
Closed on: samedi 22.03.2008 à 15:52 UTC
Assigned to: [Eric NOULARD <erk>](#)
Fixed Release: 3.2.6

Original Submission:

There is nothing in the HLA specification that disallows "timestamp" as an attribute or parameter name. However, CERTI currently does not work if there is an attribute or parameter name "Timestamp". This should be corrected.

Enclosed is a patch that corrects this problem.

Dernier commentaire posté (par Eric NOULARD <erk>) :

Hi Chris,


I am back working on CERTI in order to make it more HLA compliant.
I'm not able to reproduce your bug?
May be some other fix we did fix this one two?
Could try the current CVS code in order to tell me if the bug is still there?

If it is may be you can tell me a little more about your test?

How many federate?
What is the exact sequence of the RTI request
I did in a first federate:

```
createFederationExecution
joinFederationExecution
getObjectClassHandle
getAttributeHandle
publishObjectClass
registerObjectInstance
updateAttributeValues
resignFederationExecution
destroyFederationExecution
```

```
then in another one:
createFederationExecution
joinFederationExecution
getObjectClassHandle
getAttributeHandle
subscribeObjectClassAttributes
tick tick tick (in order to get reflectAttributeValues called)
resignFederationExecution
destroyFederationExecution
```

 [bugs #21396: EnableAsynchronousDelivery not yet implemented ?](#)

Submitted on: mardi 23.10.2007 à 12:20 UTC
Status: Fixed
Release: CVS

Submitted by: [Adelantado <adele>](#)
Closed on: samedi 22.03.2008 à 15:50 UTC
Assigned to: [Pierre Siron <siron>](#)
Fixed Release: 3.2.5

Original Submission:

Invoking the EAD HLA service produces the following error message:

```
error during enableAsynchronousDelivery
FEDERATE READY TO START
Local object DataRadarID registered under ID = 2
appel de tar
Local time is now: 00:00:02
terminate called after throwing an instance of 'RTI::RTIinternalError'
RTIA has thrown NetworkError exception.
Reason: Connection closed by client.
```

Dernier commentaire posté (par Eric NOULARD <erk>) :

Pierre,

As far as I was in your last commit
this bug should be fixed:
<http://lists.nongnu.org/archive/html/certi-cvs/2007-11/msg00009.html>

Could you confirm and close the bug if it is the case?

 bugs #21355: Unusal behaviour when calling createFederationExecution and destroyFederationExecution

Submitted on: mercredi 17.10.2007 à 09:18 UTC
Status: Fixed
Release: 3.2.4

Submitted by: None
Closed on: samedi 22.03.2008 à 15:49 UTC
Assigned to: ROUSSELOT <rousse>
Fixed Release: 3.2.6

Original Submission:

When calling the RTI-Ambassador-Service createFederationExecution and immediatly destroyFederationExecution the following error output is produced by rtia:

```

/*****
terminate called after throwing an instance of 'certi::SecurityError'
Abgebrochen

RTIA has thrown NetworkError exception.
Reason: Connection closed by client.
RTIA: Staying active to destroy federation...
*****/

rtig reports:
/*****
Security Error : Message has a unknown origin.
*****/

```

The attached file reproduce the error.

When joining and resigning the federation this error do not occur.

Dernier commentaire posté (par ROUSSELOT <rousse>) :

I confirm the problem :
createfederationexecution and then destroyfederationexecution raise this problem on the last certi version.
I am working on...
JYR

 bugs #21067: ObjectClassSet::getObjectClassHandle doesn't handle class hierarchies

Submitted on: jeudi 13.09.2007 à 13:56 UTC
Status: Duplicate
Release: CVS

Submitted by: Chris Rule <crule>
Closed on: samedi 22.03.2008 à 15:50 UTC
Assigned to: Eric NOULARD <erk>
Fixed Release: 3.2.5

Original Submission:

When a user requests an object class handle from the RTI, the input should be a hierarchy of the object class he wants the handle for. However, the function ObjectClassSet::getObjectClassHandle only looks at the individual class names. This is not correct behavior.

For example, if there is a FOM that contains Unit, Platform, Air, and Ground as object classes arranged in the following hierarchy:

- Unit.Platform.Ground
- Unit.Platform.Air
- or
- Unit
- Platform
- Ground
- Air

CERTI returns NameNotFound exception when requesting the class handle for Unit.Platform.

I suspect there are other places where this kind of thing also occurs.

Dernier commentaire posté (par Eric NOULARD <erk>) :

The analysis is right.
And in fact a similar bug is already entered in the tracker.
I flag them as inter-dependant.

Thank you for reporting this as clearly as you did.
You will be automatically informed of follow-up.
We should be able to handle the bug soon.

 **bugs #8736: CERTI doesn't compile with Cygwin**

Submitted on: jeudi 29.04.2004 à 10:16 UTC
Status: Need Info
Release: Unknown

Submitted by: None
Closed on: samedi 22.03.2008 à 15:53 UTC
Assigned to: None
Fixed Release: Unknown

Original Submission:

it says struct sockaddr_in is incomplete in the socketun,
I add in.h to it, it can compile ,but it can'n run. It says
librti error.

Dernier commentaire posté (par Eric NOULARD <erk>) :

We *may* support Cygwin compilation
through CMake usage which we used for the windows
port see "dependencies" for the Windows port task.

Since this bug is "old" I need to know if
any of the stakeholder is still interested
in the Cygwin support or not.

Such a shame initial post was done anonymously.