0.1. Scenario 1

Let us start by creating an easy static scenario to get anything under control and understand how all stack communication works. So, at the moment, no DNS will be involved.

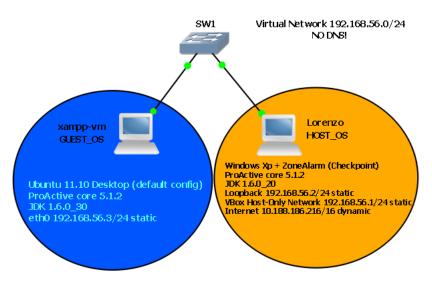


FIGURE 0.1. Scenario 1 topology

GuestOS: Here follow the main properties:

- Ubuntu 11.10 Desktop Default on VirtualBox 4.1
- \bullet Hostname xampp-vm
- ProActive core 5.1.2 with JDK 1.6.0 30
- Network interfaces configuration at Figure 0.2

HostOS: Here follow the main properties:

- Windows Xp Home Edition
- ullet Hostname Lorenzo
- ZoneAlarm (Checkpoint product)
- ProActive core 5.1.2 with JDK 1.6.0 20
- Network interfaces configuration at Figure 0.1

0.1.1. Network and Software Integration. In order to let both systems discover each other, without a DNS, I setted a local naming resolving on them:

GuestOS: in Table 0.1

HostOS: in Table 0.2

Moreover, for overcoming blocking communication issues by host firewall, I put 192.168.56.0/24 network in a trusted zone with a medium security level. Otherwise, with an high level hosts can not neither ping each other.

From application point of view, since Host OS has more than one interface, we need to specify which one ProActive will use, according with http://proactive.inria.fr/trunk/Programming/ReferenceManual/multiple_html/netconfig.html:

1

FIGURE 0.2. ifconfig command at guest OS

```
Configurazione IP di Windows

Scheda Ethernet Loopback1 GNS3:

Suffisso DNS specifico per connessione:
Indirizzo IP. : 192.168.56.2
Subnet mask . : 255.255.255.0

Scheda Ethernet accesso_internet_HOME:

Suffisso DNS specifico per connessione:
Indirizzo IP. : 10.188.186.216
Subnet mask . : 255.255.00
Gateway predefinito . : 10.188.0.1

Scheda Ethernet portatile-mansarda_via cross-cable(LAN):
Stato supporto . : Supporto disconnesso

Scheda Ethernet VirtualBox Host-Only Network:

Suffisso DNS specifico per connessione:
Indirizzo IP. : 192.168.56.1
Subnet mask . : 255.255.255.0
```

Figure 0.3. ipconfig command at host OS

```
<!-- Best practise: specify always these parameters (hosts often have
more than one interface, i.e. loopback for management) --->
cprop key="proactive.useIPaddress" value="true"/>
cprop key="proactive.hostname" value="Lorenzo"/> <!--never use "localhost"
@ server side!!--->
cprop key="proactive.net.interface" value="VirtualBox Host-Only Network"/>
cprop key="proactive.net.netmask" value="192.168.56.0/24" />
```

and, on Guest OS,

```
127.0.0.1 localhost
192.168.56.1 Lorenzo
192.168.56.3 xampp—vm

# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

Table 0.1. /etc/hosts file at Guest OS

```
127.0.0.1 localhost 192.168.56.3 xampp-vm
```

TABLE 0.2. $\overline{C}: |WINDOWS| system 32 |drivers| etc |hosts|$ file at Host OS

In such a way we should achieve the working communication at trasport and application layer.

0.1.2. Launching application.

Server on Guest - Client on Host. I have communication at all levels.

Client on Guest - Server on Host. I can ping hosts each other and run client only on host OS, but no way to do that on guest OS. In fact, an application issue comes up on client side, by selecting the wrong interface.

I explicitly need to add -Djava.rmi.server.hostname = "192.168.56.1" attribute to Java Virtual Machines to use the proper interface, otherwise other interfaces will be chosen.

Here there is the formal issue: http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4880793

```
CLHENT LOG
 2012 - 03 - 01 \quad 14:32:59.561:: INFO: \  \  Logging \  \  to \  \  STDERR \  \  via \  \  org.mortbay.log.StdErrLog \\ 2012 - 03 - 01 \quad 14:33:00.397:: INFO: \  \  jetty - 6.1.x 
2012 - 03 - 01 - 14:33:01.113:: INFO: \\ Started \\ Select Channel Connector @ 0.0.0.39738 \\ The select Channel Connector of the select Channel Channe
18900@xampp-vm - [INFO oactive.remoteobject] Remote Object Factory provider <pamr
                  class org.objectweb.proactive.extensions.pamr.remoteobject
            PAMRRemoteObjectFactory > \ found
18900@xampp-vm - [NFO oactive remoteobject] Remote Object Factory provider <pnp,
               class org.objectweb.proactive.extensions.pnp.PNPRemoteObjectFactory> found
 18900@xampp-vm - [INFO oactive.remoteobject] Remote Object Factory provider <pnps
               class org.objectweb.proactive.extensions.pnpssl.PNPSslRemoteObjectFactory>
 18900@xampp-vm - [INFO oactive.remoteobject] Remote Object Factory provider <
            pamrd\ , \quad class \quad org\ .objectweb\ .proactive\ .extensions\ .pamrd\ . PAMRDRemoteObjectFactorySPI\$PAMRDRemoteObjectFactory>\ found
 18900@xampp-vm - [INFO oactive remoteobject] Remote Object Factory provider <
            rmissl, class org.objectweb.proactive.extra.rmissl.RmiSslRemoteObjectFactory>
               found
18900@xampp-vm - [INFO communication.rmi] Detected an existing RMI Registry on
            port 1099
18900@xampp-wm - [DEBUG oactive.remoteobject] rmi://Lorenzo:1099/
myActiveServerObject looked up successfully
 18900@xampp-vm - [INFO oactive remoteobject] exception in remote object adapter
             while forwarding the method call java.rmi.ConnectIOException: Exception
             creating connection to: 192.168.56.2; nested exception is:
java.net.NoRouteToHostException: No route to host at sun.rmi.transport.tcp.TCPEndpoint.newSocket(TCPEndpoint.java:614)
```

```
\mathtt{at} \quad \mathtt{sun.rmi.transport.tcp.TCPC} \\ \mathtt{hannel.createConnection} \left( \mathtt{TCPChannel.java:} 198 \right) \\ \mathtt{at} \quad \mathtt{sun.rmi.transport.tcp.TCPChannel.createConnection} \left( \mathtt{TCPChannel.java:} 198 \right) \\ \mathtt{at} \quad \mathtt{sun.rmi.transport.tcp.TCPChannel.createConnection} \left( \mathtt{TCPChannel.java:} 198 \right) \\ \mathtt{at} \quad \mathtt{sun.rmi.transport.tcp.} \\ \mathtt{at} \quad \mathtt{a
                      at sun.rmi.transport.tcp.TCPChannel.newConnection(TCPChannel.java:184)
                      at sun.rmi.server.UnicastRef.invoke(UnicastRef.java:110)
                      at \quad java.rmi.server.RemoteObjectInvocationHandler.invokeRemoteMethod (
                                   RemoteObjectInvocationHandler.java:178)
                       at java.rmi.server.RemoteObjectInvocationHandler.invoke(
                                   RemoteObjectInvocationHandler.java:132)\\
                      at $Proxy0.receiveMessage(Unknown Source)
                      at org.objectweb.proactive.core.remoteobject.RemoteObjectAdapter.
                                  getRemoteObjectSet(RemoteObjectAdapter.java:465)
                       at org.objectweb.proactive.core.remoteobject.RemoteObjectAdapter.<init>(
                                   RemoteObjectAdapter.java:172)
                       at org.objectweb.proactive.core.remoteobject.rmi.
                                   AbstractRmiRemoteObjectFactory. \\ lookup (AbstractRmiRemoteObjectFactory. \\
                                  java:262)
                      at org.objectweb.proactive.core.remoteobject.RemoteObjectHelper.lookup(
                                   RemoteObjectHelper.java:163)
                       at org.objectweb.proactive.api.PAActiveObject.lookupActive(PAActiveObject
                                    . java:1517)
                       at \quad org. \, object web \, . \, proactive \, . \, api \, . \, PAActiveObject \, . \, lookupActive \, (PAActiveObject \, . \, lookupActive \, . \, lookupActive \, (PAActiveObject \, . \, lookupActive \, . \, \, lookupActive
                                   . java:1487)
                      at org.objectweb.proactive.examples.multiprotocol.MPClient.main(MPClient.
                                  java:51)
 Caused by: java.net.NoRouteToHostException: No route to host
                       at \quad java.net.\ PlainSocketImpl.socketConnect (\ Native\ Method)
                      at \quad java.net.\ PlainSocketImpl.doConnect (\ PlainSocketImpl.java: 351)
                      at java.net.PlainSocketImpl.connectToAddress(PlainSocketImpl.java:213)
                      at java.net.PlainSocketImpl.connect(PlainSocketImpl.java:200)
                       at java.net.SocksSocketImpl.connect(SocksSocketImpl.java:366)
                       at java.net.Socket.connect(Socket.java:529)
                       at java.net.Socket.connect(Socket.java:478)
                      {\tt at \ java.net.Socket.} < {\tt init} > ({\tt Socket.java:375})
                      at java.net.Socket.<init>(Socket.java:189)
                      at \quad sun.rmi.transport.proxy.RMIDirectSocketFactory.createSocket (\\
                                  RMIDirectSocketFactory.java:22)
                      at \quad sun.rmi.transport.proxy.RMIM as terSocket Factory.createSocket \\ (
                                  RMIMasterSocketFactory.java:128)
                       \mathtt{at} \quad \mathtt{sun.rmi.transport.tcp.TCPEndpoint.newSocket} \left( \texttt{TCPEndpoint.java:595} \right)
                                13\ more\ org.objectweb.proactive.core.exceptions.IOException 6:\ Lookup
                                   of org. object web, proactive, examples, multiprotocol, ServerObject at rmi
                                   ://Lorenzo:1099/myActiveServerObject failed
                      {\tt at org.objectweb.proactive.api.PAActiveObject.lookupActive(PAActiveObject)}
                                   . java:1528)
                       at \quad org. \ object web. \ proactive. \ api. \ PAActiveObject. \ lookupActive (PAActiveObject. \ org.)
                                   .java:1487)
                      at org.objectweb.proactive.examples.multiprotocol.MPClient.main(MPClient.
                                  java:51)
Caused by: org.objectweb.proactive.core.ProActiveException: java.lang.
             NullPointerException
                      at \quad \texttt{org.objectweb.proactive.core.remoteobject.RemoteObjectHelper.}
                                  generatedObjectStub(RemoteObjectHelper.java:199)
                      at org.objectweb.proactive.api.PAActiveObject.lookupActive(PAActiveObject
                                    . java:1519)
                                 2 more Caused by: java.lang.NullPointerException
                      at \quad org. \, object web \, . \, proactive \, . \, core \, . \, remote object \, . \, Remote Object Adapter \, .
                                   receive Message (RemoteObjectAdapter.java:183)
                      at \quad \texttt{org.objectweb.proactive.core.remoteobject.RemoteObjectAdapter.}
                      getClassName \ (RemoteObjectAdapter.java: 423) at org.objectweb.proactive.core.remoteobject.RemoteObjectHelper.
                                  generatedObjectStub(RemoteObjectHelper.java:181)
SERVER LOG
 Hello I am the server!!
85763@Lorenzo - [DEBUG active.configuration] Registering ProActive properties
             from\ class\ org.object we b.\ proactive.core.config.\ Central PAP roperty Repository
 85763@Lorenzo – [DEBUG active configuration] Registering ProActive properties
             from class org.objectweb.proactive.core.ssh.proxycommand.ProxyCommandConfig
 85763@Lorenzo - [DEBUG active configuration] Registering ProActive properties
             from \quad class \quad org. \\ object \\ web. \\ proactive.extensions.pamr.PAMRC \\ on fig
 85763@Lorenzo — [DEBUG active configuration] Registering ProActive properties
             from \ class \ org.object web.proactive.extensions.pnp.PNPC on fig
 85763@Lorenzo — [DEBUG active .configuration] Registering ProActive properties
             from \quad class \quad org. \, object web \, . \, proactive \, . \, extensions \, . \, pnpssl \, . \, PNPSslConfig
 85763@Lorenzo — [DEBUG active configuration] key:proactive communication pamr.
             socketfactory --- > value:plain
 85763@Lorenzo - [DEBUG active.configuration] key:proactive.communication.pamr.
```

```
85763@Lorenzo - [DEBUG active.configuration] key:proactive.pnps.port ---> value:0 85763@Lorenzo - [DEBUG active.configuration] key:proactive.pnps.default_heartbeat
           -> value:9000
85763@Lorenzo - [DEBUG active.configuration] key:proactive.pnps.idle_timeout --->
       value:60000
85763 @Lorenzo - [DEBUG active .configuration] key:proactive .pnps .authenticate -->
       value: false
85763@Lorenzo - [DEBUG active.configuration] key:proactive.pnp.port ---> value:0
85763@Lorenzo —
                          [DEBUG active.configuration] key:proactive.pnp.default_heartbeat
          -> value:9000
85763@Lorenzo - [DEBUG active.configuration] key:proactive.pnp.idle timeout -->
       value:60000
85763@Lorenzo - [DEBUG active.configuration] key:proactive.communication.ssh.
       try\_proxy\_command \ -\!\!\!-\!\!> \ value:false
85763@Lorenzo - [DEBUG active.configuration] key:proactive.communication.
benchmark.class --> value:org.objectweb.proactive.core.remoteobject.benchmark
         SelectionOnly
85763@Lorenzo - [DEBUG active.configuration] key:proactive.runtime.ping --> value
       : false
85763@Lorenzo - [DEBUG active.configuration] key:proactive.runtime.ping.url --->
value: http://pinging.activeeon.com/ping.php
85763@Lorenzo - [DEBUG active.configuration] key:proactive.runtime.broadcast --->
       value: false
85763@Lorenzo - [DEBUG active.configuration] key:proactive.runtime.broadcast.
       \,a\,d\,d\,r\,e\,s\,s\,\;-\!\!-\!\!>\,\;v\,a\,l\,u\,e\,:\,2\,\,3\,\,0\,\,.\,\,0\,\,.\,\,1\,\,.\,1
85763@Lorenzo - [DEBUG active.configuration] key:proactive.runtime.broadcast.port
         --> value:4554
85763@Lorenzo - [DEBUG active.configuration] key:proactive.runtime.broadcast.
       callback class -
                                  -> value: org.objectweb.proactive.core.runtime.broadcast.
       BTCallbackDefaultImpl
85763@Lorenzo - [DEBUG active.configuration] Default Config File is: file:/C:/
       Programmi/eclipse/workspace/ProActiveProgramming-5.1.2\_core/classes/Core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/org/core/
       objectweb/proactive/core/config/ProActiveConfiguration. xml\\
85763@Lorenzo - [DEBUG active.configuration] key:proactive.stack_trace --> value:
       false
85763@Lorenzo - [DEBUG active.configuration] key:proactive.pnp.port --> value
       :12222 (OVERRIDE)
85763@Lorenzo - [DEBUG active.configuration] System property java.protocol.
handler.pkgs\ is\ not\ a\ ProActive\ property \\ 85763@Lorenzo-[DEBUG\ active.configuration]\ Exported\ < java.protocol.handler.pkgs
       , org.objectweb.proactive.core.ssh | org.objectweb.proactive.core.classloading.
       protocols> as System property
85763@Lorenzo - [DEBUG active configuration] key: java protocol handler pkgs -
       value: org.\ object web.\ proactive.\ core.\ ssh\ |\ org.\ object web.\ proactive.\ core
       classloading.protocols
85763@Lorenzo - [DEBUG active.configuration] key:proactive.ssl.cipher.suites -->
       value: SSL DH anon WITH RC4 128 MD5
85763@Lorenzo - [DEBUG active.configuration] key:proactive.mixedlocation.
       maxMigrationNb --> value:-1
85763@Lorenzo - [DEBUG active.configuration] key:proactive.filetransfer.
blocks_number --> value:8
85763@Lorenzo - [DEBUG active.configuration] key:proactive.communication.
       additional_protocols --- > value: http ,pnp
85763@Lorenzo — [DEBUG active.configuration] System property ibis.serialization
       is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] Exported <ibis.serialization, ibis>
       as System property
85763@Lorenzo - [DEBUG active.configuration] key:ibis.serialization ---> value:
       ibis
85763@Lorenzo - [DEBUG active.configuration] System property ibis.io.
       serialization.classloader is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] Exported <ibis.io.serialization.
       class loader\;,\;\; org.\; object we b\;.\; proactive\;.\; core\;. mop\;. MOPC lass Loader > \; as \;\; System
       property
85763@Lorenzo - [DEBUG active configuration] kev: ibis.io. serialization.
                             -> value: org . object web . proactive . core . mop . MOPClassLoader
       classloader -
85763@Lorenzo - [DEBUG active configuration] System property ibis name_server.
       host is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] Exported <ibis.name_server.host,
       localhost > as System property
85763@Lorenzo - [DEBUG active configuration] key:ibis name server host --> yalue:
       localhost
85763@Lorenzo - [DEBUG active.configuration] key:proactive.tag.dsf --> value:
       false
85763@Lorenzo - [DEBUG active.configuration] key:proactive.mop.writestubondisk
       --> value: false
85763@Lorenzo - [DEBUG active.configuration] key:proactive.filetransfer.blocks_size_kb --> value:512
```

```
85763@Lorenzo - [DEBUG active.configuration] key:proactive.filetransfer.
    services number —> value:16
85763@Lorenzo - [DEBUG active.configuration] key:proactive.locationserver --->
     value: org. objectweb. proactive.ext.locationserver. LocationServer
85763@Lorenzo - [DEBUG active.configuration] System property ibis.name_server.key
      is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] Exported <ibis.name_server.key, 1>
    as System property
85763@Lorenzo - [DEBUG active.configuration] key:ibis.name_server.key --> value:185763@Lorenzo - [DEBUG active.configuration] key:proactive.webservices.
    elementformdefault --> value: false
85763@Lorenzo - [DEBUG active.configuration] Exported <gcm.provider, org.
    object web.\ proactive.\ core.\ component.\ Fractive >\ as\ System\ property
85763@Lorenzo - [DEBUG active configuration] key:gcm.provider --> value:org.
    objectweb.proactive.core.component.Fractive
85763@Lorenzo – [DEBUG active.configuration] key:proactive.securitymanager ——>
     value: true
85763@Lorenzo - [DEBUG active.configuration] key:proactive.hostname ---> value:
    Lorenzo
85763@Lorenzo - [DEBUG active.configuration] key:proactive.mixedlocation.ttl -->
    value:-1
85763@Lorenzo - [DEBUG active.configuration] key:proactive.filetransfer.
buffer_size_kb ---> value:256
85763@Lorenzo - [DEBUG active.configuration] key:proactive.tagmemory.lease.max
     --> value:60
85763@Lorenzo - [DEBUG active.configuration] key:proactive.net.netmask --> value
     :192.168.56.0/24
85763@Lorenzo - [DEBUG active configuration] Exported <schema.validation, true>
    as System property
85763@Lorenzo - [DEBUG active.configuration] key:schema.validation ---> value:true
85763@Lorenzo - [DEBUG active.configuration] key:proactive.webservices.framework
      -> value:axis2
85763@Lorenzo - [DEBUG active.configuration] key:proactive.net.interface -->
    value: VirtualBox Host-Only Network
85763@Lorenzo - [DEBUG active configuration] key:proactive implicitgetstubonthis
       > value: false
85763@Lorenzo - [DEBUG active.configuration] key:proactive.net.disableIPv6 --->
    value: true
85763 @ Lorenzo - [DEBUG active.configuration] key: proactive.log4j.appender.\\
    provider --> value: org.objectweb.proactive.core.util.log.remote
     Throttling Provider
85763@Lorenzo - [DEBUG active.configuration] key:components.creation.timeout --->
     value:10000
85763@Lorenzo - [DEBUG active.configuration] key:proactive.rmi.port --> yalue
    :1099
85763@Lorenzo - [DEBUG active.configuration] key:proactive.gcmd.unix.shell --->
    value:/bin/sh
85763@Lorenzo - [DEBUG active.configuration] key: proactive.tagmemory.lease.period
      ---> value:21
85763@Lorenzo - [DEBUG active.configuration] key:proactive.communication.rmissh.
    try_normal_first --> value:false
85763@Lorenzo - [DEBUG active.configuration] key:proactive.classloading.useHTTP
      -> value:true
85763@Lorenzo - [DEBUG active.configuration] key:proactive.mixedlocation.
maxTimeOnSite --> value:-1
85763@Lorenzo - [DEBUG active.configuration] key:proactive.future.ac --> value:
    true
85763@Lorenzo - [DEBUG active.configuration] key: proactive.communication.protocol
     ---> value:rmi
85763@Lorenzo - [DEBUG active.configuration] key:proactive.exit_on_empty --->
     value: false
85763@Lorenzo — [DEBUG active.configuration] key:proactive.pnp.idle timeout ——>
    value:10000 (OVERRIDE)
85763@Lorenzo — [DEBUG active configuration] kev:proactive useIPaddress ---> value
     : true
85763@Lorenzo - [DEBUG active.configuration] key:proactive.masterworker.
     compresstasks ---> value: false
85763@Lorenzo — [DEBUG active.configuration] key:proactive.locationserver.rmi --->
     value://localhost/LocationServe
85763@Lorenzo - [DEBUG active.configuration] key:proactive.runtime.stayalive --->
    value: true
85763@Lorenzo - [DEBUG active.configuration] key:proactive.test.perf.duration --->
      value: 30000
85763@Lorenzo - [DEBUG active.configuration] key:proactive.masterworker.
    pingperiod -
                  -> value:10000
85763@Lorenzo - [DEBUG active.configuration] key:proactive.pnp.default_heartbeat
      -> value:9000 (OVERRIDE)
85763@Lorenzo - [DEBUG active.configuration] key:proactive.dgc --> value:false
```

```
8\,576\,3\,@\,Lorenzo\,-\,\left[DEBUG\ active.\,con\,figuration\,\right]\ key:proactive.\,mixed location\,.
    updatingForwarder --> value: false
85763@Lorenzo - [DEBUG active.configuration] System property java.runtime.name is
     not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:java.runtime.name --> value:Java
     (TM) SE Runtime Environment
85763@Lorenzo - [DEBUG active.configuration] System property java.protocol.
    handler pkgs is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key: java. protocol. handler.pkgs --->
value: org. objectweb.proactive.core.ssh | org. objectweb.proactive.core.
     classloading protocols (OVERRIDE)
85763@Lorenzo - [DEBUG active configuration] System property sun boot library.
    path is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:sun.boot.library.path ---> value:
    C:\Programmi\Java\jre6\bin
85763@Lorenzo – [DEBUG active .configuration] System property java.vm.version is
    not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:java.vm.version --> value:19.0-
    b09
85763@Lorenzo - [DEBUG active.configuration] System property java.vm.vendor is
    not a ProActive property
85763@Lorenzo - [DEBUG active configuration] key:java.vm.vendor --> value:Sun
    Microsystems Inc.
85763@Lorenzo - [DEBUG active configuration] System property java vendor url is
    not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key: java.vendor.url --> value: http
     ://java.sun.com/
85763@Lorenzo - [DEBUG active configuration] System property path separator is
    not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:path.separator --> value:;
85763@Lorenzo - [DEBUG active.configuration] System property java.vm.name is not
a ProActive property 85763@Lorenzo - [DEBUG active.configuration] key:java.vm.name --> value:Java
    HotSpot(TM) Client VM
85763@Lorenzo - [DEBUG active.configuration] System property file.encoding.pkg is
     not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key: file.encoding.pkg ---> value:sun.
    i o
85763@Lorenzo - [DEBUG active.configuration] System property sun.java.launcher is
     not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:sun.java.launcher --> value:
    SUN STANDARD
85763@Lorenzo — [DEBUG active.configuration] System property user.country is not
    a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:user.country ---> value:IT
85763@Lorenzo - [DEBUG active.configuration] System property sun.os.patch.level
     is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:sun.os.patch.level --> yalue:
    Service Pack 3
85763@Lorenzo - [DEBUG active.configuration] System property ibis.serialization
is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:ibis.serialization ---> value:
    ibis (OVERRIDE)
85763@Lorenzo — [DEBUG active configuration] System property ibis io.
     serialization.classloader is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:ibis.io.serialization.
    OVERRIDE)
85763@Lorenzo - [DEBUG active.configuration] System property java.vm.
    specification name is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key: java.vm.specification.name --->
    value: Java Virtual Machine Specification
85763@Lorenzo — [DEBUG active.configuration] System property user.dir is not a
    P\, {\tt ro}\, A\, {\tt ctive} \quad {\tt propert}\, {\tt y}
85763@Lorenzo - [DEBUG active.configuration] kev:user.dir --> value:C:\Programmi\
     eclipse\workspace\ProActiveProgramming-5.1.2 core
85763@Lorenzo - [DEBUG active.configuration] System property ibis.name_server.
    host is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:ibis.name_server.host ---> value:
    localhost (OVERRIDE)
85763@Lorenzo - [DEBUG active.configuration] System property java.runtime.version
     is not a ProActive property
85763@Lorenzo - [DEBUG active configuration] key: java runtime version --> value
     1.6.0 23-b05
85763@Lorenzo - [DEBUG active.configuration] System property java.awt.graphicsenv
     is not a ProActive property
85763@Lorenzo - [DEBUG active configuration] key: java.awt.graphicsenv ---> value:
    sun.awt.Win32GraphicsEnvironment
```

```
85763 @ Lorenzo - [DEBUG \ active.configuration] \ System \ property \ java.endorsed.dirs
              is not a ProActive property
 85763@Lorenzo - [DEBUG active.configuration] key:java.endorsed.dirs --> value:C:\
             Programmi \ Java \ jre6 \ lib \ endorsed
 85763@Lorenzo — [DEBUG active configuration] System property os arch is not a
              ProActive property
 85763@Lorenzo - [DEBUG active.configuration] key:os.arch --> value:x86
85763@Lorenzo - [DEBUG active configuration] System property java io tmpdir is
             not a ProActive property
 85763@Lorenzo - [DEBUG active .configuration] key: java .io .tmpdir --> value:C:\
             DOCUME~1\ mixtli\IMPOST~1\Temp\
 85763@Lorenzo - [DEBUG active configuration] System property line separator is
not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:line.separator --> value:
85763@Lorenzo - [DEBUG active configuration] System property java vm.
              specification .vendor is not a ProActive property
 85763 @Lorenzo - [DEBUG active configuration] key: java.vm.specification.vendor -\!-\!>
                 value: Sun Microsystems Inc.
 85763@Lorenzo — [DEBUG active.configuration] System property user.variant is not
              a ProActive property
 85763@Lorenzo - [DEBUG active.configuration] key:user.variant ---> value:
 85763@Lorenzo — [DEBUG active configuration] System property os name is not a
              ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:os.name ---> value:Windows XP 85763@Lorenzo - [DEBUG active.configuration] System property ibis.name_server.key
                is not a ProActive property
85763@Lorenzo - [DEBUG active configuration] key:ibis.name_server.key ---> value:1
                (OVERRIDE)
 85763@Lorenzo – [DEBUG active.configuration] Exported < gcm.provider, org.
              object web.\ proactive.\ core.\ component.\ Fractive >\ as\ System\ property
 85763@Lorenzo — [DEBUG active configuration] key:gcm.provider -
              object web.proactive.core.component.Fractive (OVERRIDE)
 85763@Lorenzo — [DEBUG active .configuration] System property java .security .
              manager is not a ProActive property
 85763@Lorenzo - [DEBUG active.configuration] key:java.security.manager --> value:
 85763@Lorenzo -
                                                 [DEBUG active.configuration] System property sun.jnu.encoding is
              not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:sun.jnu.encoding ---> value:
             Cp1252
 85763@Lorenzo - [DEBUG active configuration] System property java library path is
                not a ProActive property
 85763@Lorenzo - [DEBUG active.configuration] key:java.library.path ---> value:C:\
              Programmi \setminus \texttt{Java} \setminus \texttt{jre6} \setminus \texttt{bin} \ ; . \ ; C: \setminus \texttt{WINDOWS} \setminus \texttt{Sun} \setminus \texttt{Java} \setminus \texttt{bin} \ ; C: \setminus \texttt{WINDOWS} \setminus \texttt{system32} \ ; C: \setminus \texttt{WINDOWS} \setminus \texttt{WINDOWS} \setminus \texttt{WINDOWS} \
             WINDOWS;C:/Programmi/Java/jre6/bin/client;C:/Programmi/Java/jre6/bin;C:/
              \label{lows}  Programmi/Java/jre6/lib/i386; C: \WINDOWS \system 32; C: \WINDOWS; C: \WINDOWS \columnwidth \
              System32\Wbem; c:\Programmi\ATI Technologies\ATI.ACE\;"C:\Programmi\Zone Labs\
              Zone Alarm \ Mail Frontier "; c:\Programmi \ Microsoft SQL Server \ 100 \ Tools \ Binn \; c:
              Programmi | Microsoft SQL | Server | 100 | DTS | Binn | ;C: | PROGRA~1 | GTK | bin ;C: | Programmi
              \\ \backslash \operatorname{Microsoft} \ \operatorname{Visual} \ \operatorname{Studio} \backslash \operatorname{Common} \backslash \operatorname{Tools} \backslash \operatorname{WinNT}; C : \backslash \operatorname{Programmi} \backslash \operatorname{Microsoft} \ \operatorname{Visual}
              Studio \Common\MSDev98\Bin; C:\Programmi\Microsoft Visual Studio \Common\Tools; C
              :\Programmi\Microsoft Visual Studio\VC98\bin;C:\Programmi\MiKTeX 2.5\miktex\bin;C:\Programmi\Java\jdk1.6.0_20\bin;C:\Programmi\eclipse;
85763@Lorenzo - [DEBUG active configuration] System property java specification.
              name is not a ProActive property
 85763@Lorenzo - [DEBUG active.configuration] key:java.specification.name --->
              value: Java Platform API Specification
 85763@Lorenzo - [DEBUG active.configuration] System property java.class.version
is not a ProActive property

85763@Lorenzo - [DEBUG active.configuration] key:java.class.version --> value
              :50.0
 85763 @Lorenzo - [DEBUG active.configuration] Exported <schema.validation, true>
              as System propert
 85763@Lorenzo - [DEBUG active.configuration] key:schema.validation --> value:true
                (OVERRIDE)
85763@Lorenzo - [DEBUG active configuration] System property sun management.
              compiler is not a ProActive property
 85763@Lorenzo - [DEBUG active.configuration] key:sun.management.compiler -->
              value: HotSpot Client Compiler
 85763@Lorenzo — [DEBUG active.configuration] System property os.version is not a
              ProActive property
 85763@Lorenzo - [DEBUG active.configuration] key:os.version --> value:5.1
85763@Lorenzo - [DEBUG active.configuration] System property user.home is not a
              ProActive property
 85763@Lorenzo - [DEBUG active .configuration] key:user.home ---> value:C:\Documents
                and Settings \ mixtli
 85763@Lorenzo - [DEBUG active.configuration] Exported <java.security.policy, C:\
              Programmi \setminus e\,clipse \setminus workspace \setminus Pro\,A\,ctive\,Programming - 5.1.2\,\_core \setminus e\,x\,amples \setminus A\,ctive\,Programming - 5.1.2\,\_core \setminus e\,x\,amples \cap A\,ctive - 6.1.2\,\_core \cap A\,ct
              proactive java policy > as System property
```

```
85763 @ Lorenzo - [DEBUG \ active.configuration] \ key: java.security.policy ---> \ value: Configuration is configuration.
     : \\ \ | \ Programming - 5.1.2 \_ core \\ \ | \ examples \\ \ |
     proactive.java.policy
85763@Lorenzo - [DEBUG active.configuration] System property user.timezone is not
      a ProActive
                   property
85763@Lorenzo - [DEBUG active.configuration] key:user.timezone --> value:
85763@Lorenzo - [DEBUG active.configuration] System property java.awt.printerjob
is not a ProActive property

85763@Lorenzo - [DEBUG active.configuration] key:java.awt.printerjob ---> value:
     sun.awt.windows.WPrinterJob
85763@Lorenzo — [DEBUG active.configuration] System property file.encoding is not
      a ProActive
                   property
85763@Lorenzo - [DEBUG active.configuration] key:file.encoding --> value:Cp1252
85763@Lorenzo - [DEBUG active.configuration] System property java.specification.
     version is not a ProActive property
85763@Lorenzo — [DEBUG active.configuration] key: java.specification.version ——>
85763@Lorenzo - [DEBUG active.configuration] System property java.class.path is
    not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] System property user name is not a
     ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:user.name ---> value:mixtli
85763@Lorenzo - [DEBUG active.configuration] System property java.vm.
     specification.version is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key: java.vm.specification.version
     --> value:1.0
85763@Lorenzo - [DEBUG active.configuration] System property java.home is not a
     ProActive property
85763@Lorenzo - [DEBUG active configuration] key:java.home --> value:C:\Programmi
     \backslash \operatorname{Java} \backslash \operatorname{jre} 6
85763@Lorenzo - [DEBUG active.configuration] System property sun.arch.data.model
    is not a ProActive property
85763@Lorenzo - [DEBUG active configuration] key:sun.arch.data.model ---> value:32
85763@Lorenzo - [DEBUG active.configuration] System property user.language is not
      a ProActive
                   property
85763@Lorenzo - [DEBUG active configuration] key:user.language ---> value:it
85763@Lorenzo - [DEBUG active.configuration] System property java.specification.
     vendor is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key: java.specification.vendor --->
     value: Sun Microsystems Inc.
85763@Lorenzo — [DEBUG active.configuration] System property awt.toolkit is not a
      ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:awt.toolkit ---> value:sun.awt.
     windows WToolkit
85763@Lorenzo - [DEBUG active.configuration] System property java.vm.info is not
     a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:java.vm.info --> value:mixed
     mode, sharing
85763@Lorenzo — [DEBUG active.configuration] System property java.version is not
a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:java.version ---> value:1.6.0_23
85763@Lorenzo - [DEBUG active.configuration] System property java.ext.dirs is not
      a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:java.ext.dirs ---> value:C:\
     Programmi \setminus Java \setminus jre6 \setminus lib \setminus ext; C: \setminus WINDOWS \setminus Sun \setminus Java \setminus lib \setminus ext
85763@Lorenzo - [DEBUG active.configuration] System property sun.boot.class.path
is not a ProActive property
85763@Lorenzo - [DEBUG active configuration] key:sun.boot.class.path ---> value:C
     :\Programmi\Java\jre6\lib\resources.jar;C:\Programmi\Java\jre6\lib\rt.jar;C:\
     Programmi\Java\jre6\lib\sunrsasign.jar;C:\Programmi\Java\jre6\lib\jsse.jar;C
      \Programmi\Java\jre6\lib\jce.jar;C:\Programmi\Java\jre6\lib\charsets.jar;C:\
Programmi\Java\jre6\lib\modules\jdk.boot.jar;C:\Programmi\Java\jre6\classes 85763@Lorenzo - [DEBUG active.configuration] System property java.vendor is not a
      ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:java.vendor ---> value:Sun
     Microsystems
85763@Lorenzo - [DEBUG active.configuration] System property file.separator is
     not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:file.separator ---> value:\
85763@Lorenzo - [DEBUG active.configuration] System property java.vendor.url.bug
     is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:java.vendor.url.bug ---> value:
     http://java.sun.com/cgi-bin/bugreport.cgi
85763@Lorenzo — [DEBUG active configuration] System property sun io unicode.
    encoding is not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:sun.io.unicode.encoding --->
     value: UnicodeLittle
```

```
85763 @ Lorenzo - [DEBUG active.configuration] \ System \ property \ sun.cpu.endian \ is
    not a ProActive property
85763@Lorenzo - [DEBUG active .configuration] key:sun.cpu.endian --> value:little
85763@Lorenzo — DEBUG active.configuration] System property sun.desktop is not a
     ProActive property
85763@Lorenzo — [DEBUG active.configuration] key:sun.desktop —-> value:windows 85763@Lorenzo — [DEBUG active.configuration] System property sun.cpu.isalist is
    not a ProActive property
85763@Lorenzo - [DEBUG active.configuration] key:sun.cpu.isalist ---> value:
     pentium_pro+mmx pentium_pro pentium+mmx pentium i486 i386 i86
85763@Lorenzo - [DEBUG onfiguration network] proactive hostname defined. Using
    getByName() to elected an IP address
2012-03-05 18:16:58.234::INFO: Logging to STDERR via org.mortbay.log.StdErrLog
2\,012\,{-}0\,3\,{-}05\quad 1\,8:1\,6:5\,9.\,8\,4\,3:: {\tt INFO}: \quad {\tt jetty}\,\,{-}\,6.1.\,{\tt x}
2012-03-05 18:17:00.703::INFO: Started SelectChannelConnector@0.0.0:3041
85763@Lorenzo - [DEBUG active.configuration] key:proactive.http.port ---> value
85763@Lorenzo - [DEBUG active.configuration] Exported < java.rmi.server.codebase,
    http://Lorenzo: 3041/proactive/classServer/> \ as \ System \ property
85763@Lorenzo - [DEBUG active.configuration] key:java.rmi.server.codebase ---> value:http://Lorenzo:3041/proactive/classServer/
85763@Lorenzo - [INFO oactive remoteobject] Remote Object Factory provider <pamr,
      {\tt class \ org.objectweb.proactive.extensions.pamr.remoteobject}
     {\tt PAMRRemoteObjectFactory} > \ {\tt found}
85763@Lorenzo - [INFO oactive.remoteobject] Remote Object Factory provider <pnp,
     class org.objectweb.proactive.extensions.pnp.PNPRemoteObjectFactory> found
85763@Lorenzo - [INFO oactive.remoteobject] Remote Object Factory provider <pnps,
     class org.objectweb.proactive.extensions.pnpssl.PNPSslRemoteObjectFactory>
85763@Lorenzo — [INFO oactive.remoteobject] Remote Object Factory provider <pamrd
    , class org.objectweb.proactive.extensions.pamrd.
PAMRDRemoteObjectFactorySPI$PAMRDRemoteObjectFactory> found
85763@Lorenzo — [INFO oactive remoteobject] Remote Object Factory provider <
     rmissl\ ,\ class\ org.\ object web.\ proactive.\ extra.\ rmissl\ .\ RmiSslRemoteObjectFactory>
      found
85763@Lorenzo - [DEBUG active.configuration] Exported < java.rmi.server.codebase,
     http://Lorenzo:3041/proactive/classServer/ http://Lorenzo:3041/proactive/
     classServer/> as System property
85763@Lorenzo - [DEBUG active.configuration] key: java.rmi.server.codebase ---> value: http://Lorenzo:3041/proactive/classServer/http://Lorenzo:3041/
     proactive/classServer/ (OVERRIDE)
85763@Lorenzo – [INFO communication rmi] Created a new registry on port 1099
85763@Lorenzo —
                 [DEBUG oactive remoteobject] successfully bound in registry at
     \verb"rmi://Lorenzo:1099/PA_JVM964518626"
85763@Lorenzo - [DEBUG oactive remoteobject] registed remote object at
    PA JVM964518626
85763@Lorenzo — [DEBUG oactive remoteobject] registering remote object at
     endpoint http://Lorenzo:3041/PA JVM964518626
85763@Lorenzo - [DEBUG oactive remoteobject] [Multi-Protocol] Object
    PA_JVM964518626 expose with additionnal protocol : http
85763@Lorenzo - [DEBUG oactive.remoteobject] [Multi-Protocol] Object
    PA JVM964518626 expose with additionnal protocol : pnp
85763@Lorenzo - [DEBUG active configuration] Exported proactive codebase, http
     ://Lorenzo:3041/proactive/classServer/> as System property
85763@Lorenzo - [DEBUG active configuration] key:proactive codebase ---> value:
     http://Lorenzo:3041/proactive/classServer/
85763 @Lorenzo - [DEBUG active.configuration] Exported <proactive.codebase, http
://Lorenzo:3041/proactive/classServer/> as System property
85763@Lorenzo - [DEBUG active.configuration] key:proactive.codebase ---> value:
     http://Lorenzo:3041/proactive/classServer/ (OVERRIDE)
85763@Lorenzo — [DEBUG oactive remoteobject] successfully bound in registry at
     rmi://Lorenzo:1099/Node1787971128
85763@Lorenzo — [DEBUG oactive.remoteobject] registed remote object at
     Node1787971128
85763@Lorenzo - [DEBUG oactive.remoteobject] registering remote object at
     endpoint http://Lorenzo:3041/Node1787971128
85763@Lorenzo - [DEBUG oactive.remoteobject] [Multi-Protocol] Object
     Nodel 1787971128\ expose\ with\ additionnal\ protocol\ :\ http
85763@Lorenzo - [DEBUG oactive.remoteobject] [Multi-Protocol] Object
     Node1787971128 expose with additionnal protocol : pnp
85763@Lorenzo - [DEBUG oactive.remoteobject] rmi://Lorenzo:1099/Node1787971128
     looked up successfully
85763@Lorenzo - [DEBUG oactive.remoteobject] successfully bound in registry
     rmi://Lorenzo:1099/75eaa4f6-135e3dd0afd--7ff3--2c7ed44141ba7643-75eaa4f6-135
     e3dd0afd - -8000
85763@Lorenzo — [DEBUG oactive.remoteobject] registed remote object at 75eaa4f6
     -135e3dd0afd --7ff3 --2c7ed44141ba7643 --75eaa4f6 -135e3dd0afd --8000
```

```
eaa4f6-135e3dd0afd--8000
85763@Lorenzo - [DEBUG oactive remoteobject] [Multi-Protocol] Object 75eaa4f6 - 135
          additionnal protocol : http
85763 @ Lorenzo - [DEBUG oactive.remoteobject] [Multi-Protocol] Object 75 eaa4 f6-135 \\ e3dd0afd--7ff3--2c7ed44141ba7643-75 eaa4 f6-135 e3dd0afd--8000 expose with
          additionnal protocol : pnp
85763@Lorenzo - [DEBUG runtime.node] NodeFactory: getNode() for rmi://Lorenzo
          :1099/Node1787971128
85763@Lorenzo - [DEBUG proactive.runtime] proActiveRunTimeURL rmi://Lorenzo:1099/
          Node1787971128
85763@Lorenzo - [DEBUG oactive.remoteobject] rmi://Lorenzo:1099/Node1787971128
          looked up successfully
85763@Lorenzo - [DEBUG runtime.node] NodeFactory: getNode() for rmi://Lorenzo
           :1099/Node1787971128
85763@Lorenzo - [DEBUG proactive runtime] proActiveRunTimeURL rmi://Lorenzo:1099/
          Node1787971128
85763@Lorenzo - [DEBUG oactive.remoteobject] rmi://Lorenzo:1099/Node1787971128
         looked up successfully
85763@Lorenzo - [DEBUG proactive.body] Starting Body
85763@Lorenzo - [DEBUG proactive.body] Body run on node rmi://Lorenzo:1099/
          Node1787971128 \quad migration = false
85763@Lorenzo - [DEBUG proactive.runtime] nodeName Node1787971128
85763@Lorenzo - [DEBUG oactive.remoteobject] successfully bound in registry at rmi://Lorenzo:1099/__PA__HalfbodiesNode1625170536
85763@Lorenzo - [DEBUG oactive.remoteobject] registed remote object at
               PA HalfbodiesNode1625170536
85763@Lorenzo - [DEBUG oactive.remoteobject] registering remote object at
endpoint http://Lorenzo:3041/__PA__HalfbodiesNode1625170536
85763@Lorenzo - [DEBUG oactive.remoteobject] [Multi-Protocol] Object
               PA__HalfbodiesNode1625170536 expose with additionnal protocol : http
85763@Lorenzo - [DEBUG oactive.remoteobject] [Multi-Protocol] Object
               PA_HalfbodiesNode1625170536 expose with additionnal protocol : pnp
85763@Lorenzo - [DEBUG oactive.remoteobject] rmi://Lorenzo:1099/
                PA HalfbodiesNode1625170536 looked up successfully
85763@Lorenzo — [DEBUG oactive.remoteobject] successfully bound in registry at
          rmi: //Lorenzo: 1099/75eaa4f6-135e3dd0afd--7fd9--2c7ed44141ba7643-75eaa4f6-135
          e3dd0afd-8000
85763@Lorenzo - [DEBUG oactive.remoteobject] registed remote object at 75eaa4f6
           -135e3dd0afd --7fd9 --2c7ed44141ba7643 -75eaa4f6 -135e3dd0afd --8000
85763@Lorenzo — [DEBUG oactive.remoteobject] registering remote object at endpoint http://Lorenzo:3041/75eaa4f6-135e3dd0afd--7fd9--2c7ed44141ba7643-75
          eaa4f6 -135e3dd0afd --8000
85763@Lorenzo - [DEBUG oactive.remoteobject] [Multi-Protocol] Object 75eaa4f6-135
          e3{\rm d}\,d0\,a{\rm fd}\,--7{\rm fd}9\,--2\,c\,7\,e\,d\,4\,4\,1\,4\,1\,b\,a\,7\,6\,4\,3\,-75\,e\,a\,a\,4\,f\,6\,-1\,35\,e\,3\,d\,d\,0\,a{\rm fd}\,--8000\,\,expose\,\,with\,1.
          additionnal protocol : http
85763@Lorenzo - [DEBUG oactive remoteobject] [Multi-Protocol] Object 75eaa4f6-135
          e3d\,d0\,afd\,--7fd9\,--2c\,7e\,d4\,41\,41\,b\,a7\,64\,3\,-75\,eaa4\,f6\,-135\,e3\,d\,d0\,afd\,--8000\ expose\ with
additionnal protocol : pnp 85763@Lorenzo - [DEBUG runtime.node] NodeFactory: getNode() for rmi://Lorenzo
:1099/_PA_HalfbodiesNode1625170536
85763@Lorenzo - [DEBUG proactive.runtime] proActiveRunTimeURL rmi://Lorenzo:1099/
               PA__HalfbodiesNode1625170536
85763@Lorenzo - [DEBUG oactive.remoteobject] rmi://Lorenzo:1099/
              _PA__HalfbodiesNode1625170536 looked up successfully
85763@Lorenzo - [DEBUG oactive.remoteobject] registed remote object at
          myActiveServerObject
85763@Lorenzo - [DEBUG oactive.remoteobject] registering remote object at
          endpoint http://Lorenzo:3041/myActiveServerObject
85763@Lorenzo — [DEBUG oactive remoteobject] successfully bound in registry at
          \verb"rmi://Lorenzo:1099/myActiveServerObject"
85763@Lorenzo — [DEBUG oactive remoteobject] [Multi-protocol] Benchmark choose :
          {\tt org.objectweb.proactive.core.remoteobject.benchmark.Selection Only}
This is what client, by remote calling, sent me: Here I am, server! This is CLIENT_2
85763@Lorenzo — [DEBUG oactive.remoteobject] [Multi-protocol] Benchmark result
          for \ rmi://Lorenzo:1099/-3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504ff-126444141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--3504ff-12644141ba7643--35044ff-12644141ba7643--35044ff-12644141ba7643--35044ff-12644141ba7643--35044ff-12644141ba7643--35044ff-12644141ba7643--35044ff-126444141ba7643--35044ff-126444141ba7643--35044ff-126444141ba7643--35044ff-126444141ba7643--35044ff-126444141ba7643--35044ff-12644444141ba76443--35044686--36444444166446--3644444466--3644466--3644466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--364466--36466--36466--364466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36466--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--366666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--36666--
          cclf-135e3e04e80--8000 is OK
This is what client, by remote calling, sent me: Here I am, server! This is CLIENT_2
Here I am, server!
85763@Lorenzo - [DEBUG oactive remoteobject] [Multi-protocol] Benchmark result
          for \ \ http://Lorenzo:3078/-3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba76443--3504cc1f-135e3e04e80--7ff6--2c7ed44141ba76443--3504cc1f-135e3e04e80--7ff6--2c7ed444141ba76443--3504cc1f-135e3e04e80--7ff6--2c7ed444141ba76443--3504cc1f-135e3e04e80--7ff6--2c7ed444141ba76443--3504cc1f-135e3e04e80--7ff6--2c7ed444141ba76444--3504cc1f-135e3e04e80--7ff6--2c7ed444141ba76444--3504cc1f-135e3e04e80--7ff6--2c7ed444141ba7644--3504cc1f-135e3e04e80--7ff6--2c7ed444141ba7644--3504c66--3604c66--3604c66--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--3604c6--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--36046--3
          c\,c\,1\,f\,-1\,3\,5\,e\,3\,e\,0\,4\,e\,8\,0\,--\,8\,00\,0\, is OK
85763@Lorenzo - [DEBUG oactive.remoteobject] [Multi-Protocol] -3504cclf-135
          e3\,e0\,4\,e8\,0\, --7\,ff6\,\, --2\,c\,7\,e\,d\,4\,4\,1\,4\,1\,b\,a\,7\,6\,4\,3\,\, --\,3\,50\,4\,c\,c\,1\,f\, -1\,3\,5\,e\,3\,e\,0\,4\,e\,8\,0\,\, --\,8\,000 \quad received
          protocol order: [rmi, http]
```

 $85763 @ Lorenzo - [DEBUG oactive.remoteobject] [Multi-Protocol] \\ -3504cc1f-135e3e04e80--7ff6--2c7ed44141ba7643--3504cc1f-135e3e04e80--8000 received \\ protocol order: [rmi, http]$