
<JSTORM>

COM



JSTORM
<http://www.jstorm.pe.kr>

Document Information

Document title:	COM
Document file name:	MasoJava5_Dongbin.doc
Revision number:	<1.0>
Issued by:	< > SI , dbin@handysoft.co.kr
Issue Date:	<2001/01/05>
Status:	final

Content Information

Audience		
Abstract	COM	Java
Reference		'(www.maso.co.kr)
Benchmark information		

Table of Contents

COM	.....	4
COM	.....	5
COM	.....	7
COM	.....	10
VB	.....	12
	.....	13
	.....	13
	.....	14
	.....	14

COM

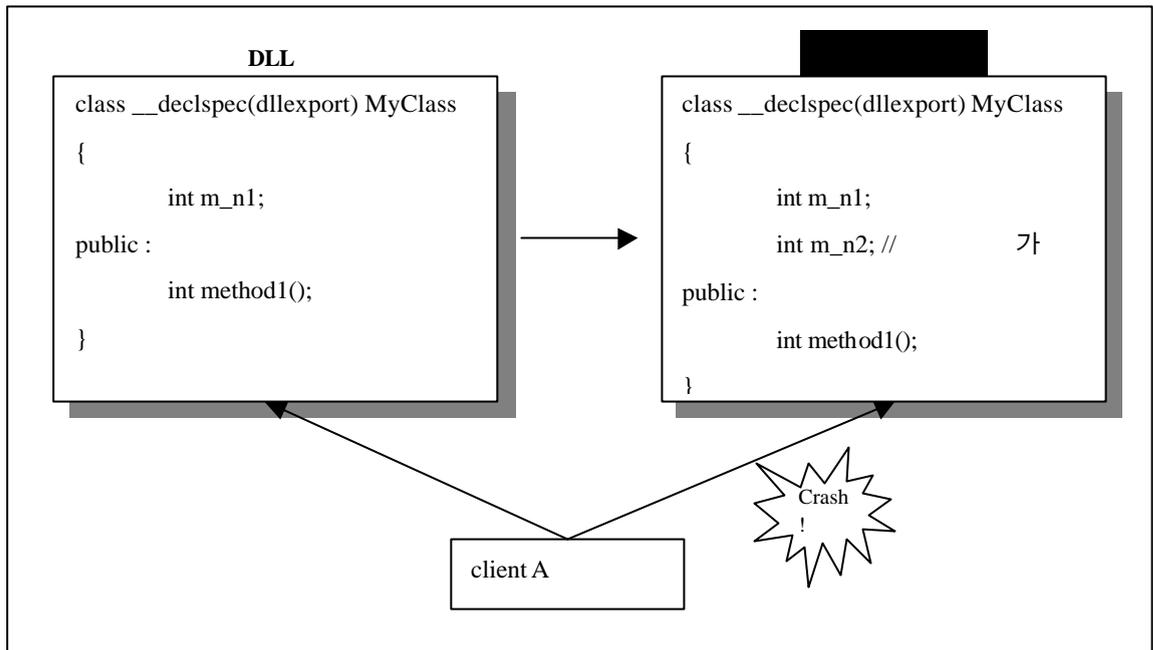
- COM
- COM
- Active-X
- JavaBeans Active-X

1 2 가 . 3 4
Active-X <http://www.javasoft.com/beans/software/bridge/>

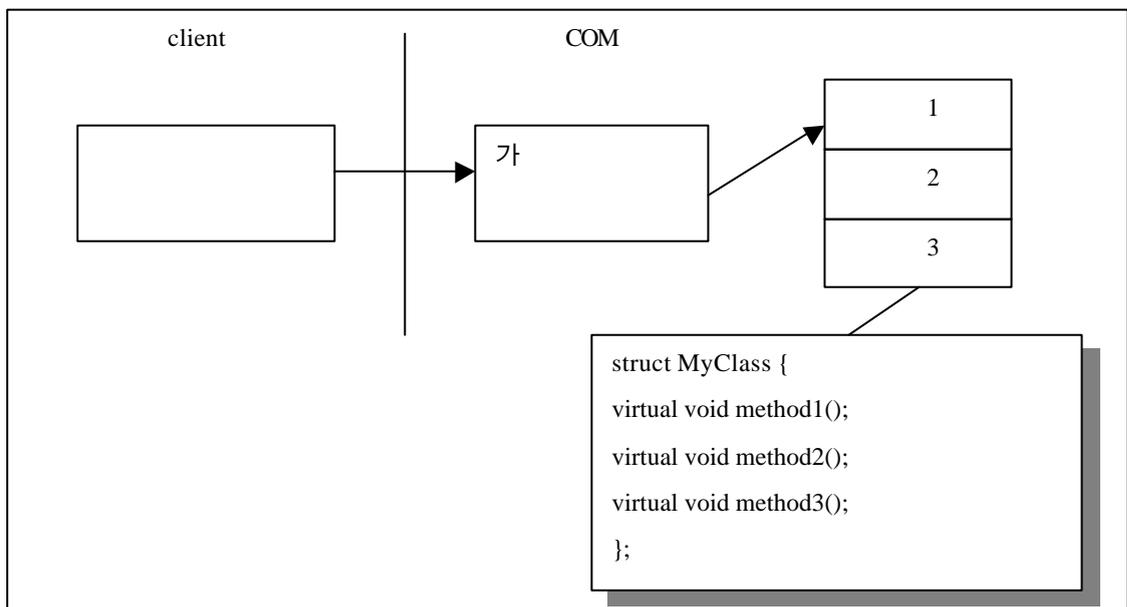
가 COM 3가 Window NT 4.0 Visual J++ 6.0
. COM COM
, COM COM MTS
가 (COM+ COM MTS
가?) MTS

COM

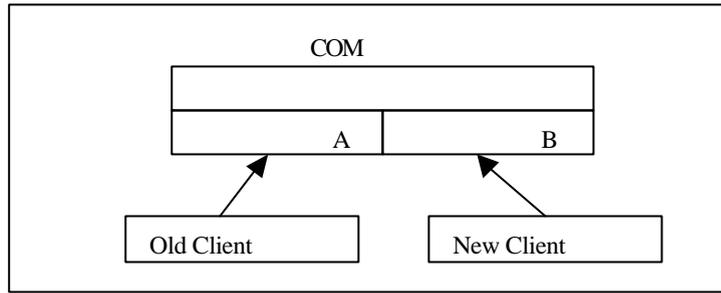
COM DLL 가 . DLL
가 가 가 가 가
가 C++ 가 DLL
가 가 DLL 1 MyClass
COM
COM ? (Interface)
(Implementation) 가 가
. VC++ IDL
. VC++ 가
2 struct struct virtual
가 IDL C++ 가
COM 가
가 . (3)
COM



1 DLL



2 COM



3 COM

COM 가 COM
COM 가 COM
COM COM
. VC++ 가
interface Object Polymorphism
가 MyInterfaceA interface MyInterfaceA
COM MyClass

```

MyClass c = new MyClass();
MyInterfaceA iA = (MyInterfaceA)c; // object polymorphism
iA.method1();
  
```

COM interface COM COM
interface 가 COM

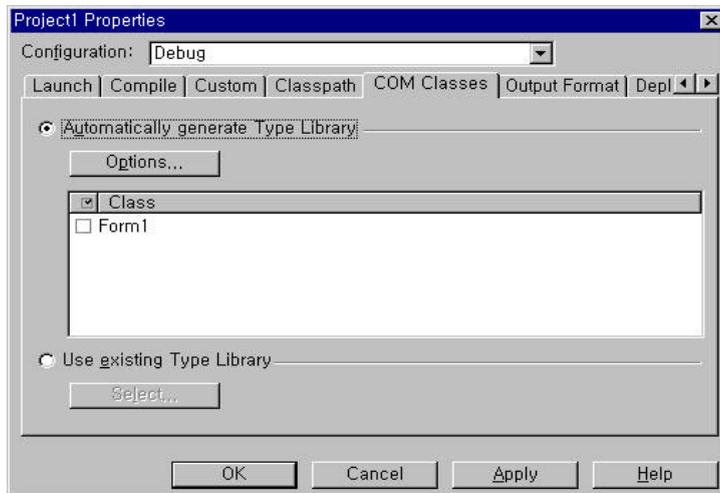
COM

VJ++ 6.0 COM
가 COM COM JScript VBScript
가 Dual Interface
. VJ++ 가 DLL DLL 가
Native
COM DLL

~~COM~~

COM DLL 3
가

COM
Project/Properties/COM Classes “Automatically generate type library”
가
가
COMDLL
Project/Properties/Output Format “Enable Packaging”
. Package Type COM DLL
.



4 COM

DLL

COM MTS . MTS
COM ObjectContext
ObjectContext SetComplete SetAbort

ObjectContext
IOBJECTCONTEXT i = MTX.GetObjectContext();
SetComplete
MTX.GetObjectContext().SetComplete()
SetAbort
MTX.GetObjectContext().SetAbort()
Server MTS 가 가
. Server @com.register
Server COM class COM DLL 가
. @com.transaction(required) DLL MTS Server
COM “ ”(Transaction Required)


```
{
    return echoed;
}

private String echoPrivate(String s)
{
    return echo(s);
}
}
```

가 COM 가 .
COM 1 echoPrivate modifier가 private
COM .COM 가
COM
(가 가) COM

COM

```
VJ++ COM . VJ++ COM  
Wrapper Class 가 Wrapper Class  
COM  
Wrapper Class RNI  
COM DLL Project/Add Com  
Wrappers .( 5) DLL  
가 가  
import  
MTS 가 COM ?ObjectContext COM  
COM SetComplete SetAbort  
. COM MTx.GetObjectContext().CreateInstance ( ID ,  
ID); Wrapper Class COM Dispatch  
Server Client  
Server Wrapper Class Server Server_Dispatch  
가 . Server CreateInstance Server_Dispatch  
가 Server_Dispatch Server  
. echo 가 “ from client”  
SetComplete SetAbort Client MTS
```

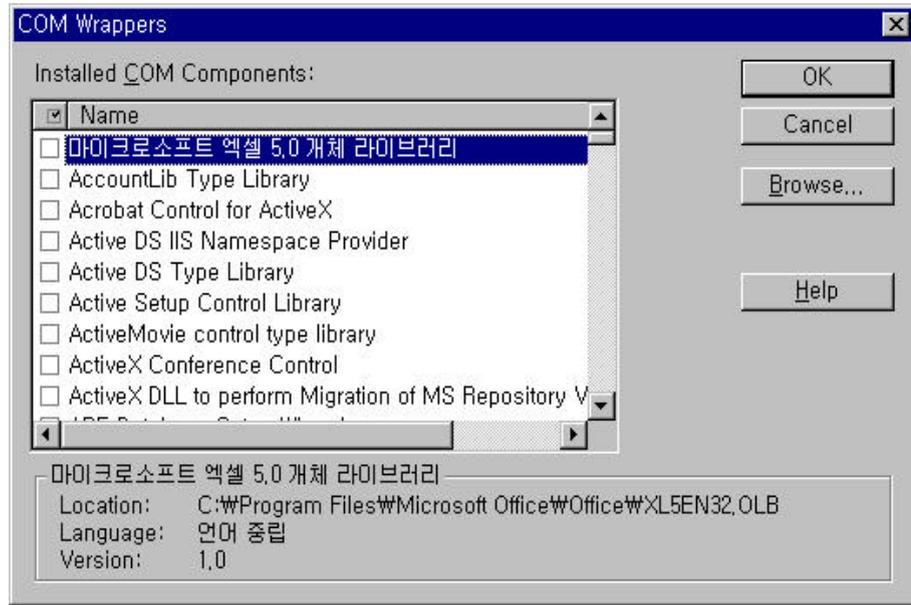
2 MTS COM

```
import com.ms.mtx.*;
import mtxttestserver.*;

/**
 * @com.register ( clsid=47E69512-784F-11D2-8E58-00C0263D213B,
 typelib=47E69513-784F-11D2-8E58-00C0263D213B )
 * @com.transaction (required)
 */
public class Client
{
    public String echo(String s)
    {
        String sRet = null;

        mtxttestserver.Server_Dispatch srv =
(mtxttestserver.Server_Dispatch) MTx.GetObjectContext ().CreateInstance
( mtxttestserver.Server.clsid , mtxttestserver.Server.iid);
        try
        {
            sRet = srv.echo (s) + " from client";
            MTx.GetObjectContext ().SetComplete ();
        } catch(Exception e)
        {
            MTx.GetObjectContext ().SetAbort ();
        }

        return sRet;
    }
}
```



5 COM Wrapper

VB

MtxTestServer.dll, MtxTestClient.dll regsvr32.exe
COM DLL MTS Explorer MTS .

```
regsvr32 /s MtxTestServer.dll
regsvr32 /s MtxTestClient.dll
```

```

VB
.(          mtxvbst          VB 6.0   가          .)
MtxVBProject.exe          6          . Server echo
    echo text          "from server"
          . Client.echo          Server.echo          "from
client"          "from server from client"가
Server.echo가          Server COM   MTS   가          State
          . Server.echo          Server.State=True
          Server.putState          .          Server COM   State   가
true          .          Server.echo          Server.getState
Server.State=True   가          .          Server.echo
Server COM   MTS   가          Server.getState          MTS
가          State          false          .

```


Active-X

가
Java Developer Connection(<http://www.javasoft.com/jdc>) 가
(<http://www.javaworld.com>)

.() 96 3 가

☞☞ “Design Techniques”, Bill Venners
Bill Venners 가 가
가 “Design
Techniques”

가
. 98 2 98 11 10

<http://www.artima.com/designtechniques/index.html>

☞☞ “Under the Hood”, Bill Venners
가
가

. 96 6 97

12 19 <http://www.javaworld.com/javaworld/jw-12-1997/jw-12-hood.html>

☞☞ “Java In Depth”, Chuck McManis
가 (96 4) 98 1

가

가 . JDK 1.

1 Writer, Reader OutputStream, InputStream
An in-depth look at J
ava’s character type (<http://www.javaworld.com/javaworld/jw-01-1998/jw-01-indepth.html>) 98 1

: (www.maso.co.kr)