

Conversion Tools - Bug #11678

Improve FWD support on Windows

07/31/2026 07:20 AM - Teodor Gorghe

Status:	Review	Start date:	
Priority:	Normal	Due date:	
Assignee:	Teodor Gorghe	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		reviewer:	Eugenie Lyzenko
billable:	No	production:	No
vendor_id:	GCD	env_name:	
case_num:		topics:	
version_reported:			
version_resolved:			
Description			
Related issues:			
Related to Runtime Infrastructure - Bug #10609: FWD compilation issues on Win...			New
Related to Conversion Tools - Bug #11266: Filename of extension too long in W...			New

History

#1 - 07/31/2026 07:54 AM - Teodor Gorghe

Currently, FWD compiles without any change, but only with a specific version of mingw gcc version (**4.9.0**, from **2015**), old version of **libffi** and **msys**.

The issues are the following:

- make utility needs to choose which shell to use. Since it was prioritized to use **GNU** utilities, it will search for **sh** first and if not found, it will use the shell (cmd.exe). FWD fails to build with sh.exe make because in the make file, files paths are mixed (Z:\trunk/src/native needs to be Z:/trunk/src/native works both on **sh.exe** and **cmd.exe** shell).
- buildadmin task fails on network drives: systemProperty('gwt.watchFileChanges', 'false') needs to added to disable GWT file changes scan.

After I make the changes for FWD to fully build on Windows, I will document the updated steps, which will be: download msys2, install dependencies for FWD using one command (msys2 uses a package manager), no need for adjusting PATH var.

Eugenie told in the about this:

Some considerations. I think we need to consider the case when consumer of the Windows building do not know anything about Linux (and even do not even want to know). So the Windows installation should be completely within Windows style standards.

On Windows, usually, users uses prebuilt binaries. In our case, the zip files generated by ant dist is enough, but our sample project is highly coupled with FWD source code.
Standard way to build apps on Windows is using msvc compiler, which comes bundled in **Visual Studio Build Tools**, but the project sample is a format generated by VS IDE, called **solution (vsproject files)**.
The alternative is using **GNU** tools, which we are at right now, and I think it is the best way because we stay independent from IDE build environments.

#2 - 07/31/2026 08:04 AM - Șerban Bursuc

- Related to Bug #10609: FWD compilation issues on Windows added

#3 - 07/31/2026 08:05 AM - Șerban Bursuc

- Related to Bug #11266: Filename of extension too long in Windows during import added

#4 - 07/31/2026 08:07 AM - Șerban Bursuc

#11266 is the biggest issue right now - Hotel GUI only compiles if placed in C:\h now. A few months ago it could compile under C:\hotel. At this pace in a short amount of time FWD won't be able to compile at all.

#5 - 07/31/2026 12:00 PM - Eugenie Lyzenko

Teodor Gorghe wrote:

Currently, FWD compiles without any change, but only with a specific version of mingw gcc version (4.9.0, from 2015), old version of libffi and msys.

The recent binaries are also available here: <https://www.mingw-w64.org/downloads/>, some countries need VPN to access this. I used the revision 15.2.0 installed 6 month ago and FWD is building fine. But on my systems neither *.ps1 work correct. Is there a serious reason we drop using *.CMD and prefer PowerShell?

#6 - 07/31/2026 05:41 PM - Eugenie Lyzenko

I'm still have no running Hotel server on Windows:

```
26/07/31 14:02:02.568-0700 | WARNING | com.goldencode.p2j.main.ServerDriver | ThreadName:main | The default character set is windows-1252, but currently only UTF-8 is supported.
26/07/31 14:02:02.568-0700 | INFO | com.goldencode.p2j.main.StandardServer | ThreadName:main | FWD v4.0.0_p2j_trunk_16681 Server starting initialization.
26/07/31 14:02:02.568-0700 | INFO | com.goldencode.p2j.main.StandardServer | ThreadName:main | ServerDriver : 4 arguments =_ [_ 'server.xml',_ 'net:connection:secure=true',_ 'net:server:secure_port=3333',_ 'net:server:insecure_port=3433',_ ]_ Product Version FWD v4.0.0_p2j_trunk_16681_ JVM Version 17.0.18_ JVM Memory: free = 506691016; total = 536870912; max = 8589934592;_ JVM Available CPUs: 8_ JVM Properties =_ {_ java.specification.version = '17',_ sun.cpu.isalist = 'amd64',_ sun.jnu.encoding = 'Cp1252',_ java.class.path = 'c:\opt\hotel_gui\deploy\lib\fwdspl.jar;c:\opt\hotel_gui\deploy\lib\hotel.jar;c:\opt\hotel_gui\deploy\lib\p2j.jar;c:\opt\hotel_gui\deploy\lib\fwdaopltw.jar;',_ java.vm.vendor = 'Oracle Corporation',_ sun.arch.data.model = '64',_ user.variant = '',_ java.vendor.url = 'https://java.oracle.com/',_ user.timezone = 'America/Los_Angeles',_ java.vm.specification.version = '17',_ os.name = 'Windows 10',_ sun.java.launcher = 'SUN_STANDARD',_ user.country = 'US',_ sun.boot.library.path = 'C:\jdk17\bin',_ sun.java.command = 'com.goldencode.p2j.main.ServerDriver server.xml net:connection:secure=true net:server:secure_port=3333 net:server:insecure_port=3433',_ jdk.debug = 'release',_ sun.cpu.endian = 'little',_ user.home = 'C:\Users\evl',_ user.language = 'en',_ java.specification.vendor = 'Oracle Corporation',_ java.version.date = '2026-01-20',_ java.home = 'C:\jdk17',_ file.separator = '\',_ java.vm.compressedOopsMode = 'Zero based',_ line.separator = '\n',_ java.vm.specification.vendor = 'Oracle Corporation',_ java.system.class.loader = 'com.goldencode.p2j.classloader.MultiClassLoader',_ java.specification.name = 'Java Platform API Specification',_ user.script = '',_ sun.management.compiler = 'HotSpot 64-Bit Tiered Compilers',_ java.locale.provider = 'SPI,CLDR,COMPAT',_ java.runtime.version = '17.0.18+8-LTS-264',_ user.name = 'evl',_ path.separator = ';',_ os.version = '10.0',_ java.runtime.name = 'Java(TM) SE Runtime Environment',_ file.encoding = 'Cp1252',_ java.vm.name = 'Java HotSpot(TM) 64-Bit Server VM',_ java.vendor.url.bug = 'https://bugreport.java.com/bugreport/',_ java.io.tmpdir = 'C:\Users\evl\AppData\Local\Temp\',_ java.version = '17.0.18',_ user.dir = 'C:\opt\hotel_gui\deploy\server',_ os.arch = 'amd64',_ java.vm.specification.name = 'Java Virtual Machine Specification',_ sun.os.patch.level = '',_ native.encoding = 'Cp1252',_ java.library.path = '../lib/',_ java.vm.info = 'mixed mode, sharing',_ java.vendor = 'Oracle Corporation',_ java.vm.version = '17.0.18+8-LTS-264',_ ANTLR_USE_DIRECT_CLASS_LOADING = 'true',_ java.specification.maintenance.version = '1',_ sun.io.unicode.encoding = 'UnicodeLittle'}
```

```

le',_ java.class.version = '61.0'_,_ JVM Environment =_ {_ USERDOMAIN_ROAMINGPROFILE = 'DESK
OP-IQGBAQQ',_ PROCESSOR_LEVEL = '6',_ SESSIONNAME = 'Console',_ ALLUSERSPROFILE = 'C:\ProgramDa
ta',_ PROCESSOR_ARCHITECTURE = 'AMD64',_ PSModulePath = 'C:\Program Files\WindowsPowerShell\Modules;
C:\WINDOWS\system32\WindowsPowerShell\v1.0\Modules',_ SystemDrive = 'C:',_ ANT_OPTS = '"-Xmx4g"',_
USERNAME = 'evl',_ ProgramFiles(x86) = 'C:\Program Files (x86)',_ FPS_BROWSER_USER_PROFILE_STRIN
G = 'Default',_ PATHEXT = '.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC',_ DriverData = 'C:
\Windows\System32\Drivers\DriverData',_ test = 'n',_ spi = '-Djava.locale.provider=SPI,CLDR,COMPAT -
Djava.library.path=../lib/',_ ProgramData = 'C:\ProgramData',_ ProgramW6432 = 'C:\Program Files',_
HOMEPATH = '\Users\evl',_ PROCESSOR_IDENTIFIER = 'Intel64 Family 6 Model 158 Stepping 13, GenuineInte
l',_ ProgramFiles = 'C:\Program Files',_ PUBLIC = 'C:\Users\Public',_ usage[15] = '-b = la
unch a program associated with a process account',_ windir = 'C:\WINDOWS',_ pwd = 'C:\opt\hotel_gui'
,_ =:: = ':\',_ fspawn = 'C:\opt\hotel_gui\deploy\spawner',_ LOCALAPPDATA = 'C:\Users\evl\AppData
ata\Local',_ USERDOMAIN = 'DESKTOP-IQGBAQQ',_ FPS_BROWSER_APP_PROFILE_STRING = 'Internet Explorer',_
LOGONSERVER = '\\DESKTOP-IQGBAQQ',_ JAVA_HOME = 'C:\jdk17',_ PROMPT = '$P$G',_ serverCmd
= '"java -Xmx8192m -server @classes.txt -Djava.locale.provider=SPI,CLDR,COMPAT -Djava.library.path=../lib/ -
XX:GCTimeRatio=19 -XX:MaxTenuringThreshold=7 -XX:StringTableSize=1000003 --add-opens java.base/java.lang=ALL-U
NNAMED --add-opens java.naming/javax.naming=ALL-UNNAMED --add-opens java.base/java.net=ALL-UNNAMED -Djava.syst
em.class.loader=com.goldencode.p2j.classloader.MultiClassLoader com.goldencode.p2j.main.ServerDriver server.
xml net:connection:secure=true net:server:secure_port=3333 net:server:insecure_port=3433 1>stdout.log 2>server
.log"',_ statcode = 'n',_ ANT_HOME = 'C:\ant11015',_ OneDrive = 'C:\Users\evl\OneDrive',_
=C: = 'C:\opt\hotel_gui\deploy\server',_ APPDATA = 'C:\Users\evl\AppData\Roaming',_ open_api = '--ad
d-opens java.base/java.lang=ALL-UNNAMED --add-opens java.naming/javax.naming=ALL-UNNAMED --add-opens java.base
/java.net=ALL-UNNAMED',_ perf = '-XX:GCTimeRatio=19 -XX:MaxTenuringThreshold=7 -XX:StringTableSize=100000
3',_ CommonProgramFiles = 'C:\Program Files\Common Files',_ Path = 'C:\jdk17\bin;C:\WINDOWS\system32
;C:\WINDOWS;C:\WINDOWS\System32\Wbem;C:\WINDOWS\System32\WindowsPowerShell\v1.0\;C:\jdk17\bin;C:\jdk17\bin\ser
ver;C:\ant11015\bin;C:\Program Files\jEdit;C:\WINDOWS\System32\OpenSSH;C:\mingw64\bin;C:\Program Files (x86)\
Bazaar;C:\Users\evl\AppData\Local\Microsoft\WindowsApps;',_ OS = 'Windows_NT',_ COMPUTERTNAME = 'DESK
TOP-IQGBAQQ',_ PROCESSOR_REVISION = '9e0d',_ CommonProgramW6432 = 'C:\Program Files\Common Files',_
ComSpec = 'C:\WINDOWS\system32\cmd.exe',_ SystemRoot = 'C:\WINDOWS',_ TEMP = 'C:\Users\evl\AppData
ata\Local\Temp',_ HOMEDRIVE = 'C:',_ USERPROFILE = 'C:\Users\evl',_ TMP = 'C:\Users\evl\AppData
\Local\Temp',_ CommonProgramFiles(x86) = 'C:\Program Files (x86)\Common Files',_ NUMBER_OF_PROCESSOR
S = '8'_,_ }
26/07/31 14:02:02.568-0700 | INFO | com.goldencode.p2j.main.StandardServer | ThreadName:main | BootstrapCon
fig sharedFile = server.xml; privateFile = none; isServer = true; configuraton values =_ {_ NET:ROUTER:
THREADS = 2_ NET:CONNECTION:SECURE = true_ NET:SERVER:SECURE_PORT = 3333_ NET:SERVER:INSECURE_P
ORT = 3433_ SECURITY:SERVER:ID = standard_ DIRECTORY:BACKEND:TYPE = xml_ DIRECTORY:XML:FILENAME
= directory.xml_ DIRECTORY:XML:MUST_EXIST = true_ }
26/07/31 14:02:02.568-0700 | WARNING | com.goldencode.p2j.security.SecurityCache | ThreadName:main | No custom
server extension defined in P2J directory
26/07/31 14:02:02.568-0700 | WARNING | com.goldencode.p2j.security.SecurityCache | ThreadName:main | No custom
client extension defined in P2J directory
26/07/31 14:02:02.568-0700 | WARNING | com.goldencode.p2j.security.SecurityCache | ThreadName:main | Security
audit log is disabled
26/07/31 14:02:02.568-0700 | INFO | com.goldencode.p2j.util.logging.CentralLoggerServer | ThreadName:main,
ThreadId:00000003, User:standard | Configs received: com.goldencode.p2j.util.logging.CentralLoggerServer$Confi
gs isServerSide: false, hasConsole: false, filePath: c:\opt\hotel_gui\deploy\logs\ fwd_%m_%tY%tm%td_%tH%M%ts_%
uos_%pid_%uf_%g.log, level: INFO, fileLimit: 500000, fileCount: 4. WRITE_TO_SLF4J_API: false
26/07/31 14:02:02.568-0700 | INFO | com.goldencode.p2j.main.StandardServer | ThreadName:main, ThreadId:0000
0003, User:standard | No exported entry points defined in the P2J directory
26/07/31 14:02:02.791-0700 | INFO | com.goldencode.p2j.schema.SchemaConfig | ThreadName:main, ThreadId:0000
0003, User:standard | Using default schema profile.
26/07/31 14:02:03.662-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 56 ms to scan 1 urls, producing 10 keys and 24 values
26/07/31 14:02:03.717-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 0 ms to scan 1 urls, producing 4 keys and 4 values
26/07/31 14:02:03.736-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 19 ms to scan 1 urls, producing 8 keys and 10 values
26/07/31 14:02:03.756-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 20 ms to scan 1 urls, producing 10 keys and 29 values
26/07/31 14:02:03.903-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 131 ms to scan 1 urls, producing 265 keys and 1302 values
26/07/31 14:02:04.421-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 0 ms to scan 1 urls, producing 14 keys and 29 values
26/07/31 14:02:04.439-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 18 ms to scan 1 urls, producing 6 keys and 17 values
26/07/31 14:02:04.439-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 0 ms to scan 1 urls, producing 16 keys and 60 values
26/07/31 14:02:04.513-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 18 ms to scan 1 urls, producing 37 keys and 186 values
26/07/31 14:02:04.570-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 0 ms to scan 1 urls, producing 2 keys and 26 values
26/07/31 14:02:04.719-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 149 ms to scan 1 urls, producing 473 keys and 2207 values
26/07/31 14:02:05.273-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 110 ms to scan 1 urls, producing 362 keys and 1561 values

```

```

26/07/31 14:02:05.589-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 0 ms to scan 1 urls, producing 37 keys and 78 values
26/07/31 14:02:05.626-0700 | INFO | org.reflections.Reflections | ThreadName:main, ThreadId:00000003, User:
standard | Reflections took 19 ms to scan 1 urls, producing 29 keys and 116 values
26/07/31 14:02:05.626-0700 | WARNING | com.goldencode.p2j.convert.MatchPhraseDictionary | ThreadName:main, Thre
adId:00000003, User:standard | Could not find match phrase list!
26/07/31 14:02:06.126-0700 | WARNING | com.goldencode.artifacts.ArtifactManager | ThreadName:main, ThreadId:00
000003, User:standard | No files found in the file set.
26/07/31 14:02:06.960-0700 | INFO | com.goldencode.p2j.persist.ConversionPool | ThreadName:main, ThreadId:0
0000003, User:standard | Runtime conversion pool initialized in 4188 ms.
26/07/31 14:02:06.960-0700 | WARNING | com.goldencode.p2j.scheduler.Scheduler [Scheduler.initialize()] | Threa
dName:main, ThreadId:00000003, User:standard | No scheduler configured.
26/07/31 14:02:07.016-0700 | INFO | com.goldencode.p2j.persist.TemporaryDatabaseManager | ThreadName:main,
ThreadId:00000003, User:standard | Using public (shared) temporary database.
26/07/31 14:02:07.016-0700 | INFO | com.goldencode.p2j.persist.DatabaseManager | ThreadName:main, ThreadId:
00000003, User:standard | Using H2 database version 1.4.200 (2019-10-14)
26/07/31 14:02:07.145-0700 | INFO | com.goldencode.p2j.persist.meta.MetadataManager | ThreadName:main, Thre
adId:00000003, User:standard | Metadata server modules: [Myconnection, Connect, Index, DatabaseFeature, Sequen
ce, FieldTrig, Lock, Field, Area, Usertablestat, Tenant, Filelist, FileTrig, Tablestat, File, Trans, IndexFiel
d, Startup, Db]
26/07/31 14:02:07.623-0700 | SEVERE | com.goldencode.p2j.persist.dialect.H2Helper | ThreadName:main, ThreadId
:00000003, User:standard | Error setting FWD-specific collation; please ensure 'fwdspi.jar' is installed in J
ava extension directory
26/07/31 14:02:07.623-0700 | SEVERE | com.goldencode.p2j.main.CommonDriver | ThreadName:main, ThreadId:000000
03, User:standard | System exits with code -13 caused by:
com.goldencode.p2j.cfg.ConfigurationException: Failed to initialize hook com.goldencode.p2j.main.StandardServe
r$7
    at com.goldencode.p2j.main.ServerHookManager.hookInitialize(ServerHookManager.java:170)
    at com.goldencode.p2j.main.StandardServer.bootstrap(StandardServer.java:1218)
    at com.goldencode.p2j.main.ServerDriver.start(ServerDriver.java:566)
    at com.goldencode.p2j.main.CommonDriver.process(CommonDriver.java:522)
    at com.goldencode.p2j.main.ServerDriver.process(ServerDriver.java:233)
    at com.goldencode.p2j.main.ServerDriver.main(ServerDriver.java:1062)
Caused by: java.lang.RuntimeException: Error initializing persistence services for database 'hotel'.
    at com.goldencode.p2j.persist.Persistence.initializeTenant(Persistence.java:4279)
    at com.goldencode.p2j.persist.Persistence.<init>(Persistence.java:1034)
    at com.goldencode.p2j.persist.PersistenceFactory.getInstance(PersistenceFactory.java:193)
    at com.goldencode.p2j.persist.meta.LockTableUpdater.<init>(LockTableUpdater.java:198)
    at com.goldencode.p2j.persist.DatabaseManager.initDb(DatabaseManager.java:1902)
    at com.goldencode.p2j.persist.DatabaseManager.initialize(DatabaseManager.java:1730)
    at com.goldencode.p2j.persist.Persistence.initialize(Persistence.java:1088)
    at com.goldencode.p2j.main.StandardServer$7.initialize(StandardServer.java:1481)
    at com.goldencode.p2j.main.ServerHookManager.hookInitialize(ServerHookManager.java:147)
    ... 5 more
Caused by: com.goldencode.p2j.persist.PersistenceException: Error initializing embedded database
Caused by: org.h2.jdbc.JdbcSQLException: Invalid value "en_US_iso88591_fwd_basic" for parameter "collation
"; SQL statement:
set collation "en_US_iso88591_fwd_basic" [90008-200]
    at org.h2.message.DbException.getJdbcSQLException(DbException.java:590)
    at org.h2.message.DbException.getJdbcSQLException(DbException.java:429)
    at org.h2.message.DbException.get(DbException.java:205)
    at org.h2.message.DbException.getInvalidValueException(DbException.java:280)
    at org.h2.command.Parser.parseSetCollation(Parser.java:7427)
    at org.h2.command.Parser.parseSet(Parser.java:7197)
    at org.h2.command.Parser.parsePrepared(Parser.java:989)
    at org.h2.command.Parser.parse(Parser.java:848)
    at org.h2.command.Parser.parse(Parser.java:820)
    at org.h2.command.Parser.prepareCommand(Parser.java:753)
    at org.h2.engine.Session.prepareLocal(Session.java:669)
    at org.h2.engine.Session.prepareCommand(Session.java:606)
    at org.h2.jdbc.JdbcConnection.prepareCommand(JdbcConnection.java:1260)
    at org.h2.jdbc.JdbcStatement.executeUpdateInternal(JdbcStatement.java:164)
    at org.h2.jdbc.JdbcStatement.executeBatch(JdbcStatement.java:768)
    at com.goldencode.p2j.persist.dialect.H2Helper.executeDDL(H2Helper.java:626)
    at com.goldencode.p2j.persist.dialect.H2Helper.prepareDatabase(H2Helper.java:290)
    at com.goldencode.p2j.persist.Persistence.initializeTenant(Persistence.java:4263)
    at com.goldencode.p2j.persist.Persistence.<init>(Persistence.java:1034)
    at com.goldencode.p2j.persist.PersistenceFactory.getInstance(PersistenceFactory.java:193)
    at com.goldencode.p2j.persist.meta.LockTableUpdater.<init>(LockTableUpdater.java:198)
    at com.goldencode.p2j.persist.DatabaseManager.initDb(DatabaseManager.java:1902)
    at com.goldencode.p2j.persist.DatabaseManager.initialize(DatabaseManager.java:1730)
    at com.goldencode.p2j.persist.Persistence.initialize(Persistence.java:1088)
    at com.goldencode.p2j.main.StandardServer$7.initialize(StandardServer.java:1481)
    at com.goldencode.p2j.main.ServerHookManager.hookInitialize(ServerHookManager.java:147)
    at com.goldencode.p2j.main.StandardServer.bootstrap(StandardServer.java:1218)

```

```

at com.goldencode.p2j.main.ServerDriver.start(ServerDriver.java:566)
at com.goldencode.p2j.main.CommonDriver.process(CommonDriver.java:522)
at com.goldencode.p2j.main.ServerDriver.process(ServerDriver.java:233)
at com.goldencode.p2j.main.ServerDriver.main(ServerDriver.java:1062)

```

This is Windows 10 in VirtualBox. Note exotic line.separator value in log file. It is neither \r\n not \n.

#7 - 07/31/2026 07:45 PM - Eugenie Lyzenko

Small update. The server is starting with explicit command:

```

java -XX:+HeapDumpOnOutOfMemoryError -XX:GCTimeRatio=19 -XX:MaxTenuringThreshold=7 -XX:StringTableSize=1000003
  -Xmx8192m -server -Djava.locale.providers=SPI,CLDR,COMPAT --add-opens java.base/java.lang=ALL-UNNAMED --a
dd-opens java.naming/javax.naming=ALL-UNNAMED --add-opens java.base/java.net=ALL-UNNAMED --add-opens java.base
/java.util=ALL-UNNAMED -classpath ../lib/p2j.jar;../lib/hotel.jar;../lib/fwdspi.jar;../lib/fwdaopltw.jar com.g
oldencode.p2j.main.FwdLauncher server.xml net:connection:secure=true net:server:secure_port=3333 net:server:
insecure_port=3433

```

While the Swing client does not work:

```

...
26/07/31 16:17:04.987-0700 | FINER | com.goldencode.p2j.net.SessionManager [SessionManager.createQueue()] |
PID:2584, ThreadName:main-evl | host = localhost; port = 3333; secure = true;
26/07/31 16:17:05.110-0700 | SEVERE | com.goldencode.p2j.main.ClientCore | PID:2584, ThreadName:main-evl | Th
e client stopped working throwing an unexpected exception:
java.net.SocketException: Socket is closed
    at java.base/sun.security.ssl.SSLSocketImpl.getOutputStream(SSLSocketImpl.java:1234)
    at com.goldencode.p2j.net.NetSocketWrapper.<init>(NetSocketWrapper.java:132)
    at com.goldencode.p2j.net.NetSocket$1.create(NetSocket.java:120)
    at com.goldencode.p2j.net.SessionManager.connect(SessionManager.java:1345)
    at com.goldencode.p2j.net.SessionManager.createQueue(SessionManager.java:1206)
    at com.goldencode.p2j.net.LeafSessionManager.connectDirect(LeafSessionManager.java:256)
    at com.goldencode.p2j.net.SessionManager.connectDirect(SessionManager.java:713)
    at com.goldencode.p2j.main.ClientCore.initialize(ClientCore.java:329)
    at com.goldencode.p2j.main.ClientCore.start(ClientCore.java:550)
    at com.goldencode.p2j.main.ClientDriver.start(ClientDriver.java:293)
    at com.goldencode.p2j.main.CommonDriver.process(CommonDriver.java:522)
    at com.goldencode.p2j.main.ClientDriver.process(ClientDriver.java:175)
    at com.goldencode.p2j.main.ClientDriver.main(ClientDriver.java:381)
26/07/31 16:17:05.111-0700 | SEVERE | com.goldencode.p2j.main.CommonDriver | PID:2584, ThreadName:main-evl |
System exits with code -13 caused by:
java.lang.NullPointerException: Cannot invoke "com.goldencode.p2j.main.MainEntry.standardEntry(String)" becaus
e "is.main" is null
    at com.goldencode.p2j.main.ClientCore.start(ClientCore.java:553)
    at com.goldencode.p2j.main.ClientDriver.start(ClientDriver.java:293)
    at com.goldencode.p2j.main.CommonDriver.process(CommonDriver.java:522)
    at com.goldencode.p2j.main.ClientDriver.process(ClientDriver.java:175)
    at com.goldencode.p2j.main.ClientDriver.main(ClientDriver.java:381)

```

#8 - 08/03/2026 01:12 AM - Teodor Gorghe

I have started doing some small fixes.

Currently, the changes are not being committed, because I have a small thing which needs to be addressed, regarding automatic resolution of jvm.dll dependency.

On newer JDK (17+), that jvm.dll comes from JAVA_HOME\bin\server. In our build script, we use JAVA_HOME\lib\server, which is the path for linux based system. We use dynamic linking spawn.exe, which is required to add a PATH var entry to find this jvm.dll. I am trying to add this automatically in ClientSpawner or find a more elegant solution to that.

I have some fixes for the Windows scripts in the hotel_gui project, which I will commit soon.

#9 - 08/03/2026 01:15 AM - Teodor Gorghe

Eugenie Lyzenko wrote:

Small update. The server is starting with explicit command:

[...]

While the Swing client does not work:

[...]

I think the missing -Djava.library.path=../lib might be the culprit here.

#10 - 08/03/2026 07:32 AM - Eugenie Lyzenko

Teodor Gorghe wrote:

I have started doing some small fixes.

Currently, the changes are not being committed, because I have a small thing which needs to be addressed, regarding automatic resolution of jvm.dll dependency.

On newer JDK (17+), that jvm.dll comes from JAVA_HOME\bin\server. In our build script, we use JAVA_HOME\lib\server, which is the path for linux based system. We use dynamic linking spawn.exe, which is required to add a PATH var entry to find this jvm.dll. I am trying to add this automatically in ClientSpawner or find a more elegant solution to that.

I have some fixes for the Windows scripts in the hotel_gui project, which I will commit soon.

Note for Windows we instruct to directly put jvm.dll on the Windows system path while set up JDK for Windows OS.

#11 - 08/07/2026 10:17 AM - Teodor Gorghe

- *File hotel_gui_win.patch added*

Attaching the hotel_gui_win.patch which is needed since most of the Windows scripts are not working.

Also, committed the changes for FWD to work better on Windows, on [11678/r16694](#).

#12 - 08/11/2026 04:32 AM - Teodor Gorghe

- *% Done changed from 0 to 100*

- *reviewer Eugenie Lyzenko added*

Eugenie, please review the changes in the [11678a/r16694](#) and the ones for hotel_gui, attached in [#11678-11](#).

It improves FWD compilation on Windows and also makes the setup easy for hotel_gui, like on linux equivalent. It shouldn't break your environment.

#13 - 08/11/2026 04:33 AM - Teodor Gorghe

- *Status changed from New to WIP*

#14 - 08/11/2026 04:33 AM - Teodor Gorghe

- *Status changed from WIP to Review*

- *Assignee set to Teodor Gorghe*

#15 - 08/11/2026 11:24 AM - Eugenie Lyzenko

Teodor Gorghe wrote:

Eugenie, please review the changes in the [11678a/r16694](#) and the ones for hotel_gui, attached in [#11678-11](#).

It improves FWD compilation on Windows and also makes the setup easy for hotel_gui, like on linux equivalent. It shouldn't break your environment.

What about 11678a revision 16695? Also need to be reviewed?

#16 - 08/11/2026 01:01 PM - Teodor Gorghe

Yes, [11678a/r16695](#) needs to be reviewed.

#17 - 08/11/2026 02:05 PM - Eugenie Lyzenko

Teodor Gorghe wrote:

Yes, [11678a/r16695](#) needs to be reviewed.

What Windows version do you use to test this build?

#18 - 08/11/2026 02:07 PM - Teodor Gorghe

A Windows 10 VM.

#19 - 08/11/2026 03:24 PM - Eugenie Lyzenko

Teodor Gorghe wrote:

A Windows 10 VM.

OK. In general I think the changes are reasonable. But I want to start using Hotel GUI on Windows before I can tell everything is OK.

And here I have issues. The 11678a/r16695 can not be built with gradlew all --info:

```
...
make -f C:/opt/11678a_16695/src/native/makefile.spawn
make[1]: Entering directory 'C:/opt/11678a_16695/build/native'
"Checking FWD gcc environment at start of: C:/opt/11678a_16695/src/native/makefile.spawn"
"Initial CFLAGS: -DFWD_VERSION=\"4.0.0_p2j_11678a_16695\" -IC:/jdk17/include -IC:/jdk17/include/win32 -IC:/opt/11678a_16695/src/native -Wall -fpic"
"Initial JVM_LIBPATH: C:/jdk17/lib"
rm -f ../../build/native/spawn.exe
process_begin: CreateProcess(NULL, rm -f ../../build/native/spawn.exe, ...) failed.
make (e=2): The system cannot find the file specified.
make[1]: [C:/opt/11678a_16695/src/native/makefile.spawn:309: clean] Error 2 (ignored)
gcc -DFWD_VERSION=\"4.0.0_p2j_11678a_16695\" -IC:/jdk17/include -IC:/jdk17/include/win32 -IC:/opt/11678a_16695/src/native -Wall -fpic -g -Wall -s -IC:/jdk17/lib -DNDEBUG -D_UNICODE -m64 -IC:/jdk17/include -IC:/jdk17/include/win32 -IC:/opt/11678a_16695/src/native C:/opt/11678a_16695/src/native/winspawn.c -o ../../build/native/spawn.exe -m64
make[1]: Leaving directory 'C:/opt/11678a_16695/build/native'
make -f C:/opt/11678a_16695/src/native/makefile.win_utils
make[1]: Entering directory 'C:/opt/11678a_16695/build/native'
"Checking FWD gcc environment at start of: C:/opt/11678a_16695/src/native/makefile.win_utils"
"Initial CFLAGS: -DFWD_VERSION=\"4.0.0_p2j_11678a_16695\" -IC:/jdk17/include -IC:/jdk17/include/win32 -IC:/opt/11678a_16695/src/native -Wall -fpic"
"Initial JVM_LIBPATH: C:/jdk17/lib"
rm -f ../../build/native/get_text_metrics.exe
process_begin: CreateProcess(NULL, rm -f ../../build/native/get_text_metrics.exe, ...) failed.
make (e=2): The system cannot find the file specified.
make[1]: *** [C:/opt/11678a_16695/src/native/makefile.win_utils:194: clean] Error 2
make[1]: Leaving directory 'C:/opt/11678a_16695/build/native'
make: *** [makefile:312: win_utils] Error 2
...
```

So the Window version is still not working for now.

#20 - 08/11/2026 04:01 PM - Teodor Gorghe

- % Done changed from 100 to 90
- Status changed from Review to WIP

As the logs tell, there is no rm or cp in your machine, which tells to me that having POSIX shell, doesn't guarantee that these utilities are installed in the system. Your system uses a make binary which uses a **GNU** shell by default, without having these two binaries.

I think the best way is to revert this section to trunk, using the cmd.exe /c del /q for delete and cmd.exe /c copy /B /V ... /B for copy. Quoting these paths makes them shell agnostic.

I will tell when it is done for review.

#21 - 08/11/2026 05:04 PM - Teodor Gorghe

- Status changed from WIP to Review
- % Done changed from 90 to 100

Done in [11678a/r16696](#).

#22 - 08/11/2026 05:16 PM - Eugenie Lyzenko

Teodor Gorghe wrote:

Done in [11678a/r16696](#).

OK.

I think for the cases we can use regular Windows tools or utilities that are part of the OS we need to prefer this way. To simplify the system setup process.

#23 - 08/11/2026 06:04 PM - Roger Borrello

Teodor, there is a update to tools/docker/docker_build.sh that will include **server** in /opt/fwd-deploy. Can I add it to 11678a? It does need to lay on top of trunk_16699, so a rebase would need to be done. [Show update](#)[Show update](#)

```
=== modified file 'tools/docker/docker_build.sh'
--- old/tools/docker/docker_build.sh      2026-08-03 19:49:52 +0000
+++ new/tools/docker/docker_build.sh      2026-08-11 21:21:21 +0000
@@ -487,7 +487,7 @@
     build_args+=(
         --build-arg "DEPLOY_TYPE=client"
     )

     docker_build_image ${from_repo}${base_image}:${from_tag} ${fwdrt_image_name}:${image_tag} "client spawner"
 "${build_args[@]}"
+   docker_build_image ${from_repo}${base_image}:${from_tag} ${fwdrt_image_name}:${image_tag} "client server s
pawner" "${build_args[@]}"
     build_args=("${save_args[@]}")
     runtime_aliases=()
     publish_image_family "$fwdrt_image_name" runtime_aliases
```

```

@@ -509,7 +509,7 @@
    fwdpgdev_image_name=$(printf "%s_pg%d_jdk%d" "$fwddev_image" "$pgver" "$jdk_version")
    pgfdev_image_name=$(printf "%s_pg%d_jdk%d" "$fdev_image" "$pgver" "$jdk_version")
    pgfdev_rev_image_name=$(printf "%s_pg%d_jdk%d" "$fdev_rev_image" "$pgver" "$jdk_version")
-
    docker_build_image ${from_repo}${pgbase_image}:${from_tag} ${fwdpgrt_image_name}:${image_tag} "convert c
lient spawner" "${build_args[@]}"
+
    docker_build_image ${from_repo}${pgbase_image}:${from_tag} ${fwdpgrt_image_name}:${image_tag} "convert c
lient server spawner" "${build_args[@]}"
    pg_runtime_aliases=()
    publish_image_family "$fwdpgrt_image_name" pg_runtime_aliases

@@ -522,7 +522,7 @@
else
    build_args=()
    fwdrt_server_image_name=$(printf "%s_jdk%d" "$fwd_image" "$jdk_version")
-
    docker_build_image ${from_repo}${base_image}:${from_tag} ${fwdrt_server_image_name}:${image_tag} "convert c
lient spawner" "${build_args[@]}"
+
    docker_build_image ${from_repo}${base_image}:${from_tag} ${fwdrt_server_image_name}:${image_tag} "convert c
lient server spawner" "${build_args[@]}"
    server_runtime_aliases=()
    publish_image_family "$fwdrt_server_image_name" server_runtime_aliases
fi

```

#24 - 08/11/2026 06:45 PM - Eugenie Lyzenko

Teodor Gorghe wrote:

Eugenie, please review the changes in the [11678a/r16694](#) and the ones for hotel_gui, attached in [#11678-11](#).

How can I apply this patch to the Hotel GUI? Is it the patch to be used on Ubuntu, right?

I tried (patch -p < hotel_gui_win.patch) for recent Hotel GUI(revision 474) running inside root of the application but most of the files are not updating. Can you please make an archive with only modified but just patched versions, to just apply on top of the Hotel GUI?

And BTW the revision 16696 is now building fine on Windows.

#25 - 08/12/2026 12:41 AM - Teodor Gorghe

Roger, I will rebase the branch to contain these changes.

For hotel_gui, I have just patched it the host (using patch -p1 -i hotel_win.patch). You have a copy of it into an internal server.

#26 - 08/12/2026 09:47 AM - Roger Borrello

Teodor Gorghe wrote:

Roger, I will rebase the branch to contain these changes.

Let me know when this is done... I want to add my updates. Last I checked it was still revision 16696.

#27 - 08/12/2026 10:28 AM - Roger Borrello

Roger Borrello wrote:

Teodor Gorghe wrote:

Roger, I will rebase the branch to contain these changes.

Let me know when this is done... I want to add my updates. Last I checked it was still revision 16696.

I will do this and report back on any conflicts I cannot resolve.

#28 - 08/12/2026 10:31 AM - Roger Borrello

Branch was rebased to trunk_16702 and is now at revision 16704.

#29 - 08/12/2026 10:36 AM - Roger Borrello

Roger Borrello wrote:

Teodor, there is a update to tools/docker/docker_build.sh that will include **server** in /opt/fwd-deploy. Can I add it to 11678a? It does need to lay on top of trunk_16699, so a rebase would need to be done.

Committed to revision 16705.

Added server dist to Docker images where appropriate. Also, build images without PG when PG requested so as to have a complete set.

Files

hotel_gui_win.patch	105 KB	08/07/2026	Teodor Gorghe
---------------------	--------	------------	---------------