

WebSphere. Lombardi Edition 7.2

Windows



.....	1
.....	2
Lombardi	2
Lombardi	2
Lombardi	5
Lombardi	6
Lombardi	6
.....	7
Lombardi	7
.....	8
Lombardi	9
Microsoft SQL Server	9
Oracle	10
DB2	10
.....	11
Lombardi	11
Lombardi	11
.....	15
.....	15
.....	16
Lombardi	16
LDAP	18
Lombardi	19
Lombardi	20
.....	23
Lombardi	24
Lombardi	24
Process Center	25
Process Server	26
Performance Data Warehouse Process Server	27
.....	28
.....	28
Lombardi	29
.....	30
.....	30
.....	31

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Lombardi Process Server Performance Data Warehouse
 (: ,)
 Process Server Process App
 . Lombardi

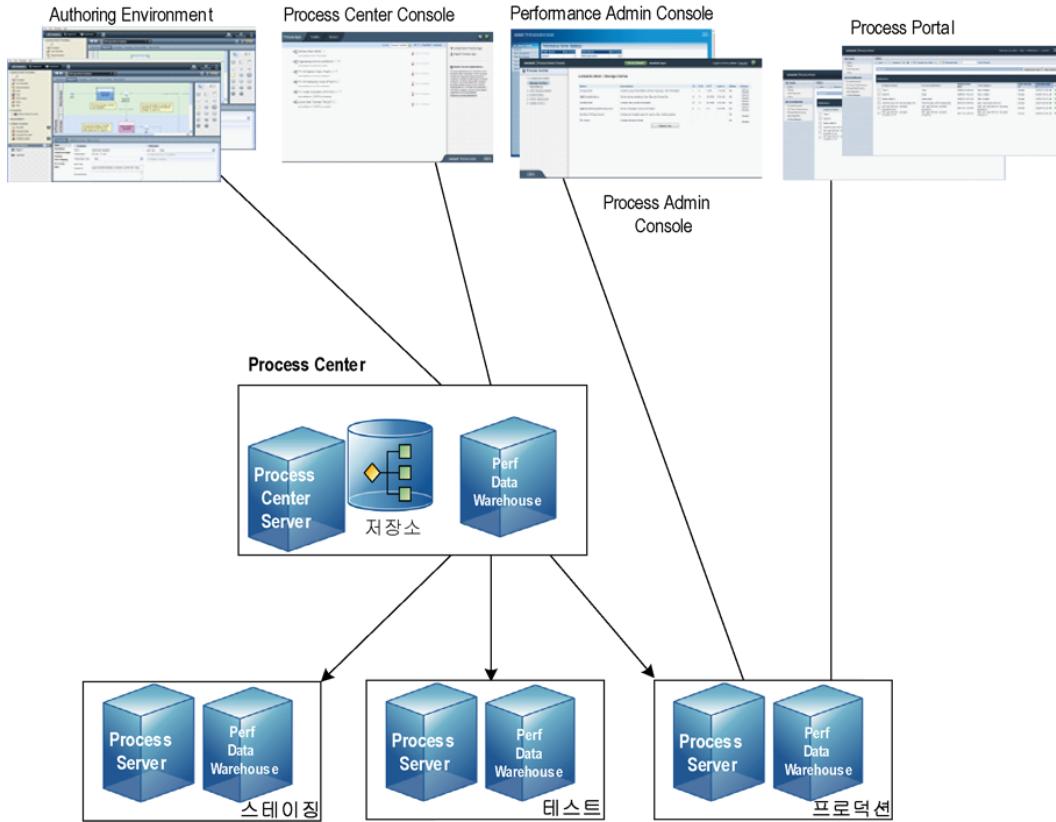
Lombardi

IBM® WebSphere® Lombardi Edition

Process Center	Process Center Console Lombardi Authoring Environment Process Center Server Performance Data Warehouse가 Process App
Process Server	Lombardi Authoring Environment Process Center
Performance Data Warehouse	Lombardi Authoring Environment
Process Center Console	Lombardi Process App, Snapshot Process Server Process App
Authoring Environment	Lombardi Authoring Environment 가
Process Portal	가 (:) Process Portal Process Server Process Center Server
Process Admin Console	가 (:) Lombardi Process Server Process Center Server
Performance Admin Console	가 (:) Lombardi Performance Data Warehouse Process Center Performance Data Warehouse

Lombardi

IBM WebSphere Lombardi Edition



- Lombardi Authoring Environment 가 Process Center
- Lombardi Authoring Environment 가 Process Center (Process App) , Authoring Environment Process Center
- Process Center Environment Process Center Server 가 Performance Data Warehouse가 Lombardi Authoring Process App
- Process Center Console 가 Process Server 가 Process App
- Process Center Console 가 Process App
- Process Portal 가 Process Server Process App Process Center
- , Process Portal 가 Process Center Server Process Server
- Lombardi Performance Data Warehouse 가 Process Server Process Center Server Lombardi Authoring Environment Process Portal

- Process Admin Console Performance Admin Console Lombardi

Lombardi

Lombardi Process Center
Server 7.0

Lombardi

WebSphere® Application
Lombardi

Lombardi

	Lombardi Authoring Environment(Windows®)	<i>Lombardi Authoring Environment</i>
()	Lombardi Process Center(Process Center Server, Performance Data Warehouse Authoring Environment)	<i>Lombardi Process Center</i>
Lombardi Process Center	Lombardi Process Center	<i>Lombardi Process Center</i>
DB2 Express 가 Lombardi Process Center	Lombardi Lombardi Process Center (Windows)	<i>Lombardi Express</i>
(Lombardi)	Lombardi (Process Server Performance Data Warehouse)	Lombardi
Lombardi	Lombardi	<i>Lombardi</i>

Lombardi

Lombardi

Lombardi

Lombardi

[Lombardi](#)

- Process Server
- Process Admin Console
- Process Portal
- Performance Data Warehouse
- Performance Admin Console

Lombardi
Process Center Console
App Snapshot

Process Server

Process Center

Process Server Process

Process Center가

[Lombardi](#)

Lombardi

Lombardi

가




Lombardi




1.

1.	Lombardi
2.	
3.	Lombardi Process Server Performance Data Warehouse Lombardi

2.

1.	 가 Lombardi
2.	Lombardi Lombardi

3.

 Deployment Manager		
 Toolkit, Lombardi		
Lombardi Process Server Warehouse  Lombardi Edition	Lombardi Performance Data WebSphere	Lombardi
		LDAP
		Lombardi
		Lombardi
		Lombardi

Lombardi






Lombardi



Lombardi	
(1.3GHz)	2.2GHz
3GB 가 RAM	
Lombardi ,	4GB

Lombardi	
	가 2GB
	10GB

Lombardi

Windows	Microsoft® Windows Server 2003(64 32) Microsoft Windows Server 2008(64 32) Microsoft Windows Server 2003 R2(64 32) Microsoft Windows Server 2008 R2(64 32)
DB2®	DB2 Enterprise Server Edition 9.7 1 DB2 Workgroup Server Edition 9.7 1 DB2 Express Edition 9.7 1  DB2 Express Edition http://www.ibm.com/systems/db/9.7/express/9.7.1/express9.7.1.pdf
Microsoft SQL Server	Microsoft SQL Server 2005 SP3 Microsoft SQL Server 2008 R1 R2  SQL 가 SQL
Oracle	Oracle Enterprise 11g 1 Oracle Standard 11g 1 Oracle Enterprise 11g 2 Oracle Standard 11g 2  Oracle XA  Oracle Enterprise 11g 2 July 2010 Critical Patch가 (1089044.1: http://www.oracle.com/technology/deploy/security/critical-patch-updates/cpujul2010.html
	Microsoft Internet Explorer 6, 7 8  Internet Explorer 8

	Mozilla Firefox 3



Lombardi

WebSphere Application Server 7.0
Lombardi

Lombardi

Lombardi
Performance Data Warehouse
Lombardi

Lombardi Process Server

Lombardi

Microsoft SQL Server

Lombardi SQL

1. **SQL**

2. > > . Lombardi . (Lombardi
lombardi .)



3. Lombardi Process Server
twProcessDB . Lombardi . Process Server



ASCII Process Server

<http://msdn.microsoft.com/en-us/library/ms144250.aspx>

4. Lombardi Performance Data Warehouse
Warehouse twPerformanceDB . Performance Data
. Lombardi



Lombardi 가 2
가 6

5. > >

6. > db_owner

7. > 가 lombardi 2
lombardi

Microsoft SQL Server 2005

- SQL-Server-Performance.com: *SQL Server 2005* : http://www.sql-server-performance.com/articles/dba/authorization_2005_p1.aspx
- Microsoft TechNet: *SQL Server 2005* <http://technet.microsoft.com/en-us/library/ms143516.aspx>
- Microsoft TechNet: <http://technet.microsoft.com/en-us/library/ms175037.aspx>

Oracle

Lombardi Oracle Lombardi

1. Oracle Enterprise Manager Lombardi Process Server
2. Process Server Lombardi (Lombardi lombardi .)
3. Process Server DBA 가
4. Oracle Enterprise Manager Lombardi Performance Data Warehouse
5. Performance Data Warehouse Lombardi (Lombardi lombardi .)
6. Performance Data Warehouse DBA 가



WebSphere Lombardi Edition Oracle Unicode
가 WebSphere Lombardi Edition AL32UTF8

DB2

IBM DB2



DB2 DB2
<http://publib.boulder.ibm.com/infocenter/db2luw/v9r7/index.jsp>

- 8 lombardi Lombardi
가 , lombardiusr
- 가 32KB

Lombardi


- Unicode(UTF-8)
- 가 32KB
- 32KB
- 32KB

ASCII

Lombardi

Lombardi

Lombardi

Lombardi	Microsoft Windows Lombardi	Lombardi
Lombardi	 가 Lombardi Lombardi	Lombardi

Lombardi

Windows

Lombardi

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Lombardi

Lombardi

Windows

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Lombardi

Lombardi

Windows Lombardi

가

Lombardi

1. WebSphere Lombardi Edition



Windows

32

64

Windows

2.

가

10GB

3. Lombardi

4.

5. Lombardi

6.



Performance Data Warehouse
Data Warehouse

Process Server
Process Server

. Performance

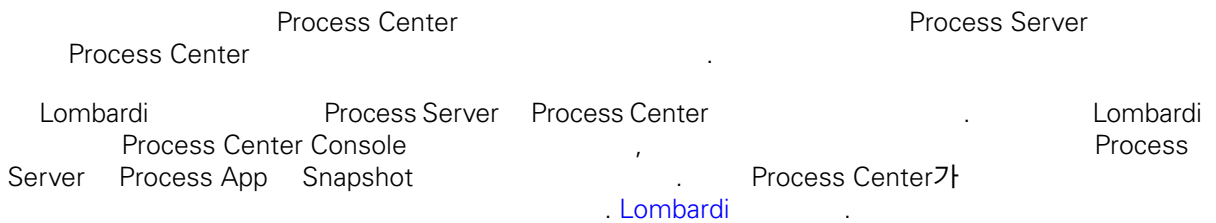
7.

Lombardi Process Server Performance Data Warehouse가

8.

	Lombardi
HTTP	Lombardi 19086
SMTP	Lombardi SMTP

9.





Process Center

Process Center	Process Center가
Process Center HTTP	Process Center가

10.

가 가



가 Lombardi


가) (Deployment Manager

11.

Lombardi



가

	Lombardi Process Server Performance Data Warehouse
	Lombardi
?	<p>) 가 Lombardi (</p> <p>Lombardi</p>  <p>가 가 Lombardi</p> <p>Lombardi</p>
Process Server	Lombardi Process Server twProcessDB
Process Server	lombardi Lombardi
Process Server	가 Lombardi

Performance Data Warehouse	Performance Data Warehouse Lombardi twPerformanceDB
Performance Data Warehouse	Lombardi lombardi
Performance Data Warehouse	가 Lombardi

가 가 가 가

12. WebSphere Lombardi Edition

Shift

Ctrl

Lombardi Process Portal, Process Admin Console
가 WebSphere Lombardi Edition
Lombardi



Lombardi 가

13. Lombardi



가

가

Lombardi

14. 가

Lombardi

가



가 가

15.

가

가

Lombardi

Lombardi



9

가

가

Lombardi

가

16. 가

IBM Websphere Lombardi Edition

가

가

Lombardi



Lombardi installvariables.properties
[Lombardi_home]/UninstallerData

Lombardi

가

Lombardi
가

Lombardi



Lombardi

가

[Lombardi_home]

Lombardi

가
가

Deployment Manager

Deployment Manager

1. Lombardi 가

Deployment Manager

[Lombardi_home]/AppServer/profiles/Dmgr01/bin/startManager.bat

2. Deployment Manager가

Deployment Manager

[Lombardi_home]/AppServer/profiles/Lombardi/bin/syncNode.bat [DM_host]
[DM_SOAP_Connector_port] -user tw_user -password tw_user

:

[DM_host]	Deployment Manager가
[DM_SOAP_connector_port]	(Deployment Manager가) Deployment Manager SOAP Deployment Manager SystemOut.log SOAP connector is available at port
-user	. tw_user
-password	. tw_user tw_user

3.

4. mbardi

[Lombardi](#)

Lombardi

가 , 가 Toolkit Process App Snapshot

1. [Lombardi_home]\twinit

2.

twinit.cmd

가

가 twinit\logs

가

3.

가 Lombardi
lsw_ 가 가 (: [schema_name].lsw_usr).

Lombardi

Lombardi



Lombardi

Windows

Microsoft Management Console

Lombardi

Lombardi

Process Server

Performance Data Warehouse



Lombardi

Node Agent가

Process Server Performance Data Warehouse

1. [Lombardi_home]/bin
2. startLombardi.cmd

Process Server Performance Data Warehouse

1. [Lombardi_home]/bin
2. stopLombardi.cmd

가

```
stopLombardi.cmd -user tw_user -password tw_user
```

Lombardi Process Server

1. [Lombardi_home]/AppServer/profiles/Lombardi/bin
2. startNode.bat

Process Server

1. [Lombardi_home]/process-server/bin
2. startProcessServer.cmd

1. [Lombardi_home]/AppServer/profiles/Lombardi/bin
2. stopNode.bat

Process Server

1. [Lombardi_home]/process-server/bin
2. stopProcessServer.cmd

Lombardi Performance Data Warehouse

1. [Lombardi_home]/AppServer/profiles/Lombardi/bin

2. startNode.bat

Performance Data Warehouse

1. [Lombardi_home]/performance-data-warehouse/bin

2. startPerformanceDataWarehouse.cmd

1. [Lombardi_home]/AppServer/profiles/Lombardi/bin

2. stopNode.bat

Performance Data Warehouse

1. [Lombardi_home]/performance-data-warehouse/bin

2. stopPerformanceDataWarehouse.cmd

LDAP

WebSphere Lombardi Edition

Lombardi

가 LDAP

가

WebSphere

LDAP

(: Microsoft Active Directory)

1. WebSphere tw_user tw_user tw_user

2. >

3. 가

4.

5.

6. 가 가 Microsoft Active Directory 가

ID	SALOMLDAP // change to suit
	Microsoft Windows Active Directory
	10.1.5.18
	cn=LDAP_USER,CN=Users,DC=COMPANYQA,DC=com
	pwsaaswp

7.

8. 가

	cn=Users, DC=COMPANYQA, DC=com
	cn=Users, DC=COMPANYQA, DC=com

9.

10.

11. Lombardi . [Lombardi](#)

12. Lombardi 가 가 가
가 WebSphere Lombardi Edition 가

13. Lombardi . [Lombardi](#)
가

Lombardi

IBM WebSphere Lombardi Edition Lombardi
가 Lombardi WebSphere Application Server
(: LDAP) ([LDAP](#)).
Lombardi Lombardi



Lombardi tw_admin tw_admins
Lombardi tw_admins [Lombardi](#)


Lombardi 가 가 , Lombardi
가 tw_admins, Lombardi
Lombardi 가 가
가 , Lombardi 가



Process Admin Console Lombardi *Lombardi*

Lombardi

1. http://[host_name]:[port]/ProcessAdmin Process Admin Console (tw_admin) (tw_admin)	Process Admin Console	<i>Lombardi</i> <i>Process Admin Console</i>

2. () Lombardi	Process Admin Console	<i>Lombardi</i>
3. Lombardi (:LDAP) 가 Lombardi 가	Process Admin Console	<i>Lombardi</i>
4. http://[host_name]:[port]/ProcessCenter Process Center Console (tw_admin) (tw_admin) 가 가 Process App Toolkit  Lombardi tw_authors 가 가	Process Center Console	<i>Authoring Environment</i> <i>Process Center</i>

Lombardi

Lombardi 가 Process Admin Console
. tw_admin

1. Admin Console http://[host_name]:[port]/ProcessAdmin Process
(tw_admin) (tw_admin)

2. Process Admin Console

3.

4. >

Lombardi *Lombardi*

5.

6.

Lombardi Lombardi Lombardi
EncryptPassword



tw_admin tw_user
<http://www-01.ibm.com/support/docview.wss?uid=swg21448216>

가 가

.tw_admin

Lombardi

- [Lombardi](#)
- [Lombardi](#)

Lombardi

1. (tw_admin) Process Admin Console (tw_admin) tw_admin Process Admin Console
[Lombardi](#)

2. Process Admin Console

3. Lombardi Process Server [Lombardi](#)).

- 4.

5. [Lombardi_home]/process-server/config/system/99Local.xml
[Lombardi_home]/process-server/config/100Custom.xml

```
<system-lane users> merge="replace" 가  
(password-encrypted true ).
```

```
<server merge="mergeChildren">  
  <bpd-engine merge="mergeChildren">  
    <system-lane-users merge="replace">  
      <!-- Use java -cp utility.jar com.lombardisoftware.utility.EncryptPassword <password> -->  
      <!-- to generate encrypted password -->  
      <user login="tw_admin" password-encrypted="true" password="new-password"/>  
    </system-lane-users>  
  </bpd-engine>  
</server>
```



100Custom.xml

merge

[Lombardi](#)

6. [Lombardi_home]/process-server/config/system/80EventManager.xml
[Lombardi_home]/process-server/config/100Custom.xml

```
<password> merge="replace" 가 <password>  
<password-encrypted> true
```

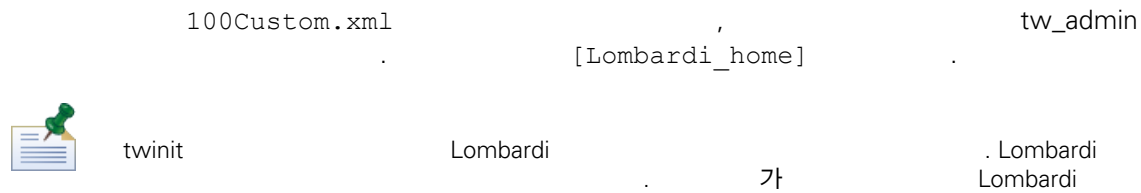
```
<event-manager merge="mergeChildren">  
  <password merge="replace">[new-password]</password>  
  <password-encrypted merge="replace">true</password-encrypted>  
</event-manager>
```

7. 100Custom.xml

```
<properties>
  <server merge="mergeChildren">
    <bpd-engine merge="mergeChildren">
      <system-lane-users merge="replace">
        <!-- Use java -cp utility.jar com.lombardisoftware.utility.EncryptPassword <password> -->
        <!-- to generate encrypted password -->
        <user login="tw_admin" password-encrypted="true" password="new-password]"/>
      </system-lane-users>
    </bpd-engine>
  </server>
  <event-manager merge="mergeChildren">
    <password merge="replace">[new-password]</password>
    <password-encrypted merge="replace">true</password-encrypted>
  </event-manager>
</properties>
```

8. Lombardi Process Server (Lombardi Lombardi Lombardi).

Lombardi



tools/process-installer/process-installer.properties	pcs.encrypted ps.encrypted
twinit/tw-init.xml	bootstrap.password
twinit/resources/config/system/99Local.xml	system-lane-users true . <password-encrypted>
twinit/resources/config/system/80EventManager.xml	event-manager true . <password-encrypted>

Lombardi

Lombardi EncryptPassword

1. [Lombardi_home]/twinit/lib

```
java -cp utility.jar com.lombardisoftware.utility.EncryptPassword <password>
<password>
```


:
java -cp utility.jar com.lombardisoftware.utility.EncryptPassword JohnDoe

taVCmTLTWWgkTvfavvu/7g==:sROM4ZbvqRDFYMobWXqvwg==

가 utility.jar utility.jar

ClassNotFound 가 Java
[Lombardi_home]/AppServer/java/bin/java

:
java -cp c:\[Lombardi_home]\twinit\lib\utility.jar
com.lombardisoftware.utility.EncryptPassword JohnDoe



EncryptPassword

2. Lombardi (: [Lombardi_home]/process-server/config/100Custom.xml)



98Database.xml, 80EventManager.xml 99Local.xml Lombardi
100Custom.xml

WebSphere Lombardi Edition Kerberos (SSO)
WebSphere Lombardi Edition Windows
. Kerberos Lombardi
(Process Center Console, Process Portal, Process Admin Console Performance Admin Console
)

<http://www-01.ibm.com/support/docview.wss?uid=swg21448203>

Lombardi

Lombardi

Lombardi

Lombardi

[Lombardi_home]/process-server/config/system/00Static.xml

[Lombardi_home]/process-server/config/100Custom.xml 가 .Lombardi

100Custom.xml



100Custom.xml
Lombardi

100Custom.xml

100Custom.xml
.merge

Lombardi

merge

"append"	가
"mergeChildren"	
"replace"	

100Custom.xml

99Local.xml

1. Lombardi Process Server . Lombardi
2. [Lombardi_home]/process-server/config/system/99Local.xml

```
<properties>
...
  <common merge="mergeChildren">
    ...
    <environment-name>[existing_name]</environment-name>
    ...
  </common>
...
</properties>
```

3. 100Custom.xml

```
<properties>
  <common merge="mergeChildren">
    <environment-name merge="replace">[new_name]</environment-name>
  </common>
</properties>
```

4. Lombardi Process Server . Lombardi
Lombardi



Lombardi가

.bak

Process Center

Lombardi Process Server Process Center Lombardi
 Process Center Console Snapshot Process Center가 Lombardi Process Server

Center Process Server Process Center 가 Process Server Process
 Lombardi Process Center

1. Lombardi Process Server (Lombardi).
2. [Lombardi_home]/process-server/config/system/99Local.xml
- 3.

```
<repository-server-url>http://[process-center-host-name]:[port]/ProcessCenter</repository-server-url>
<repository-server-user>tw_runtime_server</repository-server-user>
<repository-server-password>XDfGSzXrZ7nYglKiB:yMR2XQwJXzQACE</repository-server-password>
<repository-server-password-encrypted>true</repository-server-password-encrypted>
<repository-server-designated-user>tw_author</repository-server-designated-user>
<repository-server-designated-password>fZN75qYgnZ1l0MCV80AAhA--</repository-server-designated-password>
<repository-server-designated-password-encrypted>true</repository-server-designated-password-encrypted>
<repository-server-interval>5</repository-server-interval>
```

Process Center <repository-server-url>

4. <repository-server-url> 가
 [Lombardi_home]/process-server /config/100Custom.xml
5. <repository-server-url> , http:// [process-center-host-name] : [port]
 Process Center . 100Custom.xml
 merge="replace"

```
<repository-server-url  

merge="replace">[http://process-center-host-name:port]/ProcessCenter</repository-server-url>
```



100Custom.xml merge
 Lombardi

- 6.

repository-server-user	Process Server Lombardi tw_runtime_server 가 Process Center
------------------------	---

repository-server-password	Process Server Lombardi tw_runtime_server 가
repository-server-password-encrypted	Process Center
repository-server-designated-user	(1) Lombardi Authoring Environment Inspector BPD (2) Process App Snapshot Process Server Inspector BPD Process Server Lombardi tw_author Process App Snapshot Server tw_authors 가 Process
repository-server-designated-password	Lombardi Authoring Environment Inspector BPD Process Server 가 Lombardi tw_author
repository-server-designated-password-encrypted	
repository-server-interval	Process Server가 Process Center () Process Center



7. 100Custom.xml Process Center
Server (tw_runtime_server)

```
<properties>
<common merge="mergeChildren">
  <repository-server-url merge="replace">[http://process-center-host-name:port/ProcessCenter]</repository-server-url>
  <repository-server-password merge="replace">[new_password]</repository-server-password>
</common>
</properties>
```

8.

9. Lombardi Process Server . Lombardi

Process Server

Lombardi Authoring Environment

Process App



Process Server

1. Lombardi Process Server . [Lombardi](#) .
2. [Lombardi_home]/process-server/config/system/99Local.xml
3. [Lombardi_home]/process-server/config/100Custom.xml

```
<environment-type>TEST</environment-type>
```
4.

```
<environment-type> . 100Custom.xml
merge="replace"
<environment-type merge="replace">STAGING</environment-type>
```



100Custom.xml
[Lombardi](#)

merge

5. 100Custom.xml

```
<properties>
  <common merge="mergeChildren">
    <environment-type merge="replace">STAGING</environment-type>
  </common>
</properties>
```
- 6.
7. Lombardi Process Server . [Lombardi](#)).

Performance Data Warehouse

Process Server

Process Server Performance Data Warehouse
 Lombardi Performance Data Warehouse Performance
 Data Warehouse Process Server



1. [Lombardi_home]/process-server/config/100Custom.xml
2. 가

```
<common> <performance-data-warehouse-communication> <enabled
merge="replace">false</enabled> </performance-data-warehouse-communication>
</common>
```
3. Lombardi Process Server Performance Data Warehouse Process Server

UCA(Undercover Agent) (BPD)
BPD, UCA

[Lombardi_home]/process-server/config/100Custom.xml
[Lombardi_home]/process-server/config/system/80EventManager.xml



가

Lombardi

[Lombardi](#)

Lombardi Process Portal tw_admin

[Lombardi_home]/process-server/config/system/99Local.xml

1. [Lombardi_home]/process-server/config/100Custom.xml

<common> 가

```
<common merge="mergeChildren">
  <user-to-create-task
merge="replace">[custom_task_sender_name]</user-to-create-task>
</common>
```

- 2.

3. Lombardi

Lombardi

Lombardi

Lombardi

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- Lombardi Windows Windows

- IBM WebSphere Application Server v7.0 - ProcessCenter01 Windows

1. [Lombardi_home]\uninstall\uninstall.bat
Windows

2. Lombardi Windows

3. 가 가

IBM 가
IBM , IBM
IBM 가 IBM
IBM

135-700

467-12

: 080-023-8080

2

(DBCS)

IBM

*IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106-0032, Japan*

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IBM, IBM ibm.com 가 International Business Machines Corporation
 IBM 가 가 (® ™)
 IBM
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 " () . [http://www.ibm.com/legal/copytrade.shtml].

Linux 가 Linus Torvalds

Microsoft	Windows	가	Microsoft Corporation
UNIX		가	The Open Group
Java	Java	가	Sun Microsystems, Inc.