

GOS patch 包安装须知_3.1_to_3.2.doc

v0.5

修改记录:

- 1 V0.1, 2008-12-9, 程伯群, 针对 1209 包统计更新
- 2 V0.2, 2008-12-9, 程伯群整理
- 3 V0.3, 2008-12-9, 程伯群, 添加 patch 包的使用命令
- 4 V0.4, 2008-12-11, 程伯群, 根据小亿的 review 进行了更新
- 5 V0.5, 2009-1-9, 更新了部分内容

1 准备工作

备份数据库

备份应用模板文件

备份所有安装文件

必要的时候, 断开互联

停止 gos

2 安装 patch 包

假设 patch 包名为 patch_GOS_3.1.0_3.2.0_20081210_linux.zip, 则, 可以如下操作:

1. vi \${gos 安装目录}/all[core,system]/version
2. copy patch 包到\${gos 安装目录}/installBase/upgrade/
3. cd \${gos 安装目录 }/installBase/upgrade/
4. vi patch.sh

在文件的第 66 行后面, 添加以下 5 行命令:

```
cp ./patch/*.sh .  
dos2unix *.sh  
chmod +x *.sh
```

```
echo GOS_BASE=$GOS_BASE
```

```
./preprocess.sh $GOS_BASE
```

具体如下：

```
。。。
echo unzip done.

cp ./patch/*.sh .
dos2unix *.sh
chmod +x *.sh
echo GOS_BASE=$GOS_BASE
./preprocess.sh $GOS_BASE

echo
echo check if the version of installed GOS is suited with patch package ...
。。。
```

5. chmod +x patch.sh

6. ./patch.sh patch_GOS_3.1.0_3.2.0_20081210_linux.zip

3 配置文件手动修改

3.1 Hpcg 的 axis webapps

3.1.1 /WEB-INF/server-config.wsdd

3.1.1.1 添加记帐两个服务配置

/webapps/axis/WEB-INF/server-config.wsdd 中.具体添加内容如下：

```
<service name="resource-usage-service" provider="java:RPC">
  <requestFlow>
    <handler type="java:org.gos.core.security.handler.GetAttachmentsHandler"/>
```

```

    <handler type="java:org.gos.core.security.handler.VerifyCertsHandler"/>
  </requestFlow>
  <responseFlow>
    <handler type="java:org.gos.core.security.handler.AddHandler"/>
  </responseFlow>
  <parameter name="className"
value="org.gos.system.hpcg.accounting.acc.service.AccControlServiceImpl"/>
  <parameter name="allowedMethods" value="*" />
</service>

<service name="StatisticAccounting" provider="java:RPC">
  <parameter name="className"
value="org.gos.system.hpcg.accounting.acc.statistic.StatisticServiceImpl"/>
  <parameter name="allowedMethods" value="*" />
</service>

```

3.1.1.2 删除老的 Fms 服务配置

`/${gos_home}/jakarta-tomcat-5.0.28/webapps/axis/WEB-INF/server-config.wsdd` 中，删除以下配置：

```

  <service name="HPCGFileManageService" provider="java:RPC">
    <requestFlow>
      <handler
type="java:org.gos.core.security.handler.GetAttachmentsHandler"/><handler
type="java:org.gos.core.security.handler.VerifyCertsHandler"/></requestFlow><responseFlow>
      <handler type="java:org.gos.core.security.handler.AddHandler"/>
    </responseFlow>
    <parameter name="allowedMethods" value="*" />
    <parameter name="className"
value="org.gos.system.hpcg.filemanageservice.impl.FileManage"/>
  </service>

```

3.1.1.3 添加 pwd 服务配置

`/webapps/axis/WEB-INF/server-config.wsdd` 中，具体添加内容如下：

```

<service name="pwdservice" provider="java:RPC">
  <requestFlow>
    <handler type="java:org.gos.core.security.handler.GetAttachmentsHandler"/>
    <handler type="java:org.gos.core.security.handler.VerifyCertsHandler"/>
  </requestFlow>
  <responseFlow>
    <handler type="java:org.gos.core.security.handler.AddHandler"/>
  </responseFlow>
  <parameter name="allowedMethods" value="*" />
  <parameter name="className" value="org.gos.system.hpcg.pwdmanageservice.impl.PasswordManage" />
</service>

```

3.1.1.4修改 Va 服务的配置

`${gos_home}/jakarta-tomcat-5.0.28/webapps/axis/WEB-INF/server-config.wsdd` 中，删除以下配置：

将以下描述

```

<service name="va" provider="java:RPC">
  <parameter name="allowedMethods" value="*" />
  <parameter name="className" value="org.gos.system.archive.service.fileattri.GeneralFileAttri" />
</service>

```

`${gos_home}/jakarta-tomcat-5.0.28/webapps/axis/WEB-INF/server-config.wsdd` 中，添加以下配置：

```

<service name="va" provider="java:RPC">
  <requestFlow>
    <handler type="java:org.gos.core.security.handler.GetAttachmentsHandler"/>
    <handler type="java:org.gos.core.security.handler.VerifyCertsHandler"/>
  </requestFlow>
  <responseFlow>
    <handler type="java:org.gos.core.security.handler.AddHandler"/>
  </responseFlow>
  <parameter name="allowedMethods" value="*" />

```

```
<parameter name="className"
value="org.gos.system.hpcg.file.archive.service.VaService"/>
</service>
```

3.1.2 WEB-INF/classes/

3.1.2.1 accounting.conf.t

将\${gos_home}/jakarta-tomcat-5.0.28/webapps/axis/WEB-INF/classes/accounting.conf.t,改动如下

- line2:logFileType 改为当前批作业处理系统类型, 例如"PBS"或 "LSF"
- line8:logFileDir 改为当前的记账日志目录;
- line26:\${db_host}改为当前的 mysql 数据库主机名;
- line26:\${db_port}改为当前的 mysql 数据库端口;
- line27:\${db_user}改为当前使用的数据库用户名;
- line28:\${db_pass}改为对应用户名的密码;
- line29:\${gos_home}改为当前的 gos_home 地址.
- line38:\${gos_site_name}改为当前的节点名;

重命名 accounting.conf.t 为 accounting.conf

3.1.2.2 acc-hibernate.cfg.xml.t

将\${gos_home}/jakarta-tomcat-5.0.28/webapps/axis/WEB-INF/classes/acc-hibernate.cfg.xml.t 文件, 改动如下:

- line10:\${db_host}改为当前的 mysql 数据库主机名;
- line10:\${db_port}改为当前的 mysql 数据库端口;
- line11:\${db_user}改为当前使用的数据库用户名;
- line12:\${db_pass}改为对应用户名的密码;

重命名 acc-hibernate.cfg.xml.t 为 acc-hibernate.cfg.xml

3.1.2.3 pwdservice.cfg.xml:

`${gos.home}/jakarta-tomcat-5.0.28/webapps/axis/WEB-INF/classes/pwdservice.cfg.xml`

将文件中相应的变量进行赋值：

```
<!-- Database connection settings -->
<property
name="hibernate.connection.driver_class">org.gjt.mm.mysql.Driver</property>
<property
name="hibernate.connection.url">jdbc:mysql://${db_host}:${db_port}/useraccountinfo</property
>
<property name="hibernate.connection.username">${db_user}</property>
<property name="hibernate.connection.password">${db_pass}</property>
```

例如：

```
<property
name="hibernate.connection.driver_class">org.gjt.mm.mysql.Driver</property>
<property
name="hibernate.connection.url">jdbc:mysql://10.61.0.201:3306/useraccountinfo</property>
<property name="hibernate.connection.username">gos</property>
<property name="hibernate.connection.password">gos</property>
```

3.2 HPCG 的 batchService webapps

database.xml
WEB-INF/classes

Replace the variable `${db_host}` , `${db_port}` , `${db_user}` , `${db_pass}` with the actual parameters;

3.3 hpcg 的 test/hpcgFuntest/

3.3.1 binary/accFunctionTest.sh.t

tbd

3.3.2 conf

3.3.2.1 accFunctionTest.conf.t

tbd

3.3.2.2file_test.conf

tbd

3.3.2.3pwdtest.conf

tbd

3.3.2.4vatest.conf

`${gos.home}/test/hpcgFunTest/conf/vatest.conf` 文件的手工修改
将文件内容：

```
user=${gridAdminUsername}
passwd=${gridAdminPassword}
agora=${defaultAgoraName}
StressTestThreadsNumber=${threadnumber}
```

对各个变量进行相应的赋值，例如：

```
user=Admin_203@cngri.org
passwd=pwd
agora=Agora_203
StressTestThreadsNumber=1
```

3.4 hpcg 的 accapp webapps

3.4.1 WebServiceUrl.xml.t

配置文件路径为：`jakarta-tomcat-5.0.28/webapps/accapp/conf/WebServiceUrl.xml.t`
改动如下：

1. line4: `${gos_host}`: 改为当前的 GOS 主机地址
2. line4: `${gos_system_port}`: 改为当前的 GOS 系统端口
3. 修改文件名为 `WebServiceUrl.xml`

3.5 Hpcg 的 hpcgapp webapps

3.5.1 hpcgapp.properties

文件位置：\${gos_home}/jakarta-tomcat-5.0.28/webapps/hpcgapp/webConf/hpcgapp.properties

1. 删除以下配置项内容
 - a) account.service.address
 - b) file.service.address
 - c) job.service.address
 - d) metainfo.service.address
2. 添加如下配置项：
 - a) loadMountModule=false

3.6 hpcg 的 hpcgmgmt webapps

3.6.1 hpcgmgmt.properties

文件位置：\${gos_home}/jakarta-tomcat-5.0.28/webapps/hpcgapp/webConf

1. 添加以下配置项
 - loadMountModule=false
 - templateTags=tag1,tag2,tag3
 - webapp.application.name=hpcgapp

3.7 hpcg 的 conf 目录下

3.7.1 \${gos.home}/conf/fms-config.conf

将变量\${gos.home}替换成实际的目录

3.8 hpcg 的 work/batch/bin 目录下:

3.8.1 file_driver_sudo.sh.t

- rm old file_driver_sudo.sh
- rename file_driver_sudo.sh.t to file_driver_sudo.sh
- edit file_driver_sudo.sh, set the value of variable PARA_DRIVER_PATH
- dos2unix file_driver_sudo.sh
- chmod 755 file_driver_sudo.sh

3.8.2 condor_driver_sudo.sh.t

- rename condor_driver_sudo.sh.t to condor_driver_sudo.sh
- edit condor_driver_sudo.sh, set the value of variable PARA_DRIVER_PATH
- dos2unix condor_driver_sudo.sh
- chmod 755 condor_driver_sudo.sh

3.8.3 fms_driver_function.sh

```
chmod 755 ${gos_home}/work/batch/bin/fms_driver_function.sh;
```

3.9 消息系统

修改\${gos_home}/bin/msgclient/MsgHelper.sh 文件中某个串:

把以下行的串中的-p 后面的 pwd 改成实际的 pwd:

```
/opt/GOS_3_1_0_linux_20080930/system/gosShell/binary/grun.sh -u Admin_218@cngriid.org -p  
pwd -ac "java -Dthis.name=MsgHelper $JAVA_OPTS  
org.gos.system.msg.helper.MsgHelper &" &
```

4 数据库手动更新

```
cd ${gos.home}/jakarta-tomcat-5.0.28/bin/sql/data
1. mysql -ugos -pgos <accounting.sql
2. mysql -ugos -pgos <passwd.sql
3. mysql -ugos -pgos
   a) >drop database vegaarchive;

1. cd ${gos.home}/jakarta-tomcat-5.0.28/bin/sql/scheme
2. mysql -ugos -pgos <HPCGFile.sql
3. mysql -ugos -pgos <usermapChangeTo10.sql
```

5 GShell 的 command.alias 文件更新

5.1 记帐：

将\${gos_home}/gosShell/conf/command.alias 中的记账相关命令添加进去，添加命令如下：

```
alias          gAcc='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.accounting.rus.client.Accounting'
alias          gAccTest='grun       java          -Dgos.home=${gos_home}
org.gos.system.hpcg.accounting.test.accFunTest.TestHPCGAccount'
alias          gAccStat='grun       java          -Dgos.home=${gos_home}
org.gos.system.hpcg.accounting.acc.statistic.Statistic'
```

注意一定要将对应的\${gos_home}改为当前的 gos_home 地址。

5.2 文件服务：

Command Tools Modify: There is a file command.alias.t in {patch.home}/src/hpcg-fms/conf;

- (1) Replace the variable `${gos_home}` with the true installing place of the hpcg;
- (2) Copy the contents of this file to the directory `${gos_home}/gosShell/conf/command.alias`:
- first, delete the lines under "#sec fileled";
- second, paste the Copy the contents of `command.alias.t`;

5.3 va

修改`${gos.home}/gosShell/conf` 下的 `command.alias` 文件:

```
vi ${gos.home}/gosShell/conf/command.alias
```

找到#sec vegaArchiveCMD 处, 将这部分内容替换为下面的内容为:

```
#sec vegaArchiveCMD
alias          vamount='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaMount'
alias          vaumount='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaUmount'
alias          vapwd='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaPwd'
alias          vacd='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaCd'
alias vals='grun java -Dgos.home=${gos_home} org.gos.system.hpcg.file.archive.command.vaLs'
alias          vamkdir='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaMkdir'
alias          varmdir='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaRmdir'
alias          varm='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaRm'

alias          vashare='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaShare'
alias          vacp='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaCp'
alias          vamv='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaMv'
alias          vaup='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaUp'
alias          vadown='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaDown'
alias          vazip='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaZip'
```

```

alias          vaunzip='grun          java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaUnzip'

alias          vaaddum='grun         java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaAddUM'
alias          vadelum='grun         java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaDelUM'
alias          vasrhum='grun         java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaSrhUM'
alias          vaupdum='grun         java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaUpdUM'

alias          gaftcancel='grun      java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.Gaftcancel'
alias          gaftpause='grun      java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.Gaftpause'
alias          gaftresume='grun     java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.Gaftresume'
alias          gaftsearch='grun     java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.Gaftsearch'
alias          gaftsubmit='grun     java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.Gaftsubmit'

alias          vaapwd='grun         java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaApwd'
alias          vaupwd='grun         java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaUpwd'
alias          vadpwd='grun         java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaDpwd'

alias          vatail='grun         java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vaTail'

alias          vamgmt='grun         java          -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.command.vamgmt'

#sec testVA
alias testVA='grun java -Xms128m -Xmx128m -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.VATests'
alias testVAPerformance='grun java -Xms128m -Xmx128m -Dgos.home=${gos_home}
org.gos.system.hpcg.file.archive.testperformance.TestPerformance'

```

6 修改 ignite 应用

将 ignite 管理工具应用中的以下.t 文件改名为非.t 文件，同时修改各个文件中的两个变量：

- ignite/ignite_administrator/igniteadministrator.jnlp.t 文件
- ignite/ignite_administrator/features/org.eclipse.rcp_3.1.2.jnlp.t
- ignite/ignite_administrator/features/org.ict.vega.ignite.igniteadministrator.feature_1.0.2.jnlp.t
- ignite/ignite_user 目录下的 igniteuser.jnlp.t 文件
- ignite/ignite_user/features/org.eclipse.rcp_3.1.2.jnlp.t
- ignite/ignite_user/org.ict.vega.ignite.igniteadministrator.feature_1.0.2.jnlp.t

修改 ignite 管理工具中所有的.jnlp 文件中的\${gos_front_host}和\${gos_front_port}：

- 将所有的.jnlp 文件(目前一共六个)中的\${gos_front_host}修改为服务器的 ip 地址(例如：10.61.0.218)，\${gos_front_port}修改为 gos 服务器的端口(例如：8080)

7 重启 gos，更新 gnode

7.1 删除老的记账服务 gnode

通过 gShell 命令来删除老的 GNODE

```
gdelr -n http://10.61.0.218:8080/axis/services/resource-usage-service
```

7.2 添加新的记账服务的 gnode

通过 gShell 命令添加新的资源

```
gaddr
```

```
name: http://10.61.0.218:8080/axis/services/resource-usage-service
```

```
resource type: 0 (web service[org.gos.core.rc.axis.AxisClient])
```

```
service url: http://10.61.0.218:8080/axis/services/resource-usage-service
```

```
name: http://10.61.0.218:8080/axis/services/resource-usage-service
```

```
service type: vegasuite
```

```
service security: default
```

7.3 删除老的文件服务 gnode

通过 gShell 命令来删除老的 GNODE

```
gdelr -n http://10.61.0.218:8080/axis/services/HPCGFileManageService
```

7.4 添加新的文件服务的 gnode

通过 gShell 命令添加新的资源

```
gaddr
```

```
name: http://10.61.0.218:8080/batchService/services/fileService
```

```
resource type: 0 (web service[org.gos.core.rc.axis.AxisClient])
```

```
service url: http://10.61.0.218:8080/batchService /services/fileService
```

```
name: http://10.61.0.218:8080/batchService /services/fileService
```

```
service type: vegasuite
```

```
service security: default
```

7.5 添加密码服务 gnode

通过 gShell 命令添加新的资源

```
gaddr
```

```
name: http://10.61.0.218:8080/axis/services/pwdservice
```

```
resource type: 0 (web service[org.gos.core.rc.axis.AxisClient])
```

```
service url: http://10.61.0.218:8080/axis/services/pwdservice
```

```
name: http://10.61.0.218:8080/axis/services/pwdservice
```

```
service type: vegasuite
```

```
service security: default
```

例如:

```
[gos]gaddr
```

```
please input the name (*): http://10.61.0.218:8080/axis/services/pwdservice
```

```
please input ownner name (current user?):
```

```
please input the resource type:
```

```
0 : web service[org.gos.core.rc.axis.AxisClient]
```

```
1 : active message topic/queue[org.gos.core.rc.activemq.ActivemqClient]
```

```
2 : jmsproxy(enhanced activemq)[org.gos.core.rc.jmsproxy.JmsproxyClient]
```

```
3 : others
```

0

please input service url: <http://10.61.0.218:8080/axis/services/pwdservice>
please input service name: <http://10.61.0.218:8080/axis/services/pwdservice>
please input service type (axis|gos|vegasuite|othervalue):**vegasuite**
is the service security or not? (y/n, noSec default)**nosec**
please input some description:pwd service
please input some keyword (splited by comma):
please input other attributes(name=value), ending with 'done'
done

the resource has been created successfully!

然后看一下时候添加成功，用命令 `glsr -n`，例如：

[gos]**glsr -n http://10.61.0.218:8080/axis/services/pwdservice -l**

0

```
ResourceName      :      http://10.61.0.218:8080/axis/services/pwdservice
ResourceOwner     :
Admin_218@cngri...:      Admin_218(BA5D3D01E82C8843ED10A5212F51D7357C7)
ResOriginalID    :      FFC6CE0444ADE32E1361FBDEF7D905D5451C2BD2
HomeAgora        :      Agora_218(E72303CB6236F929321243AA28058C22B26282C3)
Creator          :
Admin_218@cngri...:      Admin_218(BA5D3D01E82C8843ED10A5212F51D7357C7)
CreateAgora      :      Agora_218(E72303CB6236F929321243AA28058C22B26282C3)
Controller       :      org.gos.core.rc.axis.AxisClient
AddTime          :      2008-12-02 15:28:03.0
UpdateTime       :      2008-12-02 15:28:03.0
Group            :      null
ACL              :      rwxr--r--
Export           :      *(self)
HomeSite         :      68341CB658488927C543200C0ADC21CDB16C37DB
Description      :      pwd service
Attributes:
-----
rc:org.gos.core.rc.axis.AxisResource/securityType      :nosec
rc:org.gos.core.rc.axis.AxisResource/name              :http://10.61.0.218:8080/axis/service
s/pwdservice
rc:org.gos.core.rc.axis.AxisResource/address           :http://10.61.0.218:8080/axis/services/
pwdservice
rc:org.gos.core.rc.axis.AxisResource/serviceType      :VegaSuit
```

7.6 修改 va 服务的 axis 类型为 VegaSuite 类型

用命令 `gchgrinfo -i` 修改 va 服务的 gnode 的资源类型为 VegaSuite。

例如：先 `glsr -n http://10.61.0.218:8080/axis/services/va -l`，得到 FDB2B936207B3D8EBCACAD933C42BB7089077217。

然后使用如下命令：

```
[gos]gchgrinfo -i FDB2B936207B3D8EBCACAD933C42BB7089077217
ResourceName          :          http://10.61.0.218:8080/axis/services/va
(FDB2B936207B3D8EBCACAD933C42BB7089077217)
ResourceOwner        :
Admin_218@cngrid.org(BA5D3D01E82C8843ED10A5212F51D7357C771BDE)
ResOriginalID       :          FDB2B936207B3D8EBCACAD933C42BB7089077217
HomeAgora           :          Agora_218(E72303CB6236F929321243AA28058C22B26282C3)
Creator              :
Admin_218@cngrid.org(BA5D3D01E82C8843ED10A5212F51D7357C771BDE)
CreateAgora         :          Agora_218(E72303CB6236F929321243AA28058C22B26282C3)
Controller           :          org.gos.core.rc.axis.AxisClient
AddTime             :          2008-12-02 14:02:22.0
UpdateTime          :          2008-12-02 15:43:47.0
Group                :
defaultGroup(2F0F57D960F86CE8930F94B3EFC8FE3A4B9E4E1F)
ACL                  :          rwxr-xr-x
Export               :          *(self)
HomeSite             :          68341CB658488927C543200C0ADC21CDB16C37DB
Description          :          va service
Attributes:
-----
rc:org.gos.core.rc.axis.AxisResource/securityType      :          nosec
rc:org.gos.core.rc.axis.AxisResource/name              :
http://10.61.0.218:8080/axis/services/va
rc:org.gos.core.rc.axis.AxisResource/address           :
http://10.61.0.218:8080/axis/services/va
rc:org.gos.core.rc.axis.AxisResource/serviceType      :          vega...
-----
only ResourceName, Group, ACL, Description and Attributes can be modified
'help' to get command help
'name=value' format to change some info
'remove name' format to remove the attr
'submit' to make modification effect
'list' to get current info
'squit' to exit with saving
'quit' to exit without saving
(cmd:)rc:org.gos.core.rc.axis.AxisResource/serviceType=VegaSuite
set rc:org.gos.core.rc.axis.AxisResource/serviceType into attribute table
```

```
(cmd:)squit  
submit ok
```

7.7 更新用户映射元信息

```
Login gshell  
grun                                java                                -Dgos.home=${gos.home}  
org.gos.system.hpcg.metainfo.patch.PathFrom0716To0930
```

```
grun                                java                                -Dgos.home=/opt/GOS3/all/  
org.gos.system.hpcg.metainfo.patch.PathFrom0716To0930
```

8 测试是否完成更新

8.1 testInstall

8.2 hpcgFunTest

8.3 gnm

8.4 重新 export/import

8.5 hpcgmgmt Portal 功能检查

8.6 hpcgapp portal 功能检查

8.7 GOS core 功能检查

9 如果测试不通过，请恢复原来的安装，请求 GOS 开发人员帮助