

The Manual Of the System.

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Introduction

In this document, we will show you how to use the system, and how to configure the system by manual.

As the previous document said, we had introduced the main functions and main structures ,which could me you have a global concept about the system . In this document, We do not want to talk about the system in details. We just want to show you how to use the system well or configure it as well.

Goals

To instruct system administrator to configure or maintain it.

Configure

The configuration involved three aspects.

1. Communication parameters configuration

In configuration file – `sysconfig.cfg` , we provide the some items , by these items you can configure the IP, Port, Timeout Value etc. As following picture shows.

[illegible]

1. **LISTEN_IP** : The host IP address, it indicates which network card will be used.
2. **LISTEN_PORT**: The host PORT Number, it indicates which port will be used as service port.
3. **REMOTE IP** : The IP address of POS mainframe.

4. REMOTE_PORT: The port number of POS mainframe.
5. TIMEOUT_VAL: The VALE of TIMEOUT of TCP/IP connection.
6. ENCRYPT_IP: The IP address of Encryption Machine.
7. ENCRYPT_PORT: The PORT number of Encryption Machine.

By the way, Union-pay provides us two types of connection. One is LONG is connection, Another is SHORT connection. In our system, we use the SHORT connection as our prototype. So, you make sure that the port service running on is SHORT-connection.

As the following picture shows:

MAC VALUE = The working key of MAC of Encryption machine.

CURRENCY_TYPE = The type of currency. [Fixed value: 156 (RMB)]

TERMINAL = The identity of Terminal.

SENDER_INSTITID = The institution ID of Sender.

BALANCE_AMOUNT_MSGTYPE = The message Type of inquiry Balance amount.[Fixed value: 0200]

BALANCE_AMOUNT_BITMAP = The Bitmap Value of Balance amount inquiry.

BALANCE_AMOUNT_PROCESSCODE= The process code. [Fixed value: 300000]

BALANCE_AMOUNT_SVRTYPE = The service type [Fixed value: 012]

BALANCE_AMOUNT_SVRCONDID = The conditional code of service [fixed value: 00]

BALANCE_RETURNFIELDS = The return fields list ,which be split by comma .

PAYMENT_MSGTYPE = The Message type of Payment [Fixed value: 0200]

PAYMENT_BITMAP = The Bitmap value of Payment.

PAYMENT_PROCESSCODE = The process code of Payment [Fixed value: 190000]

PAYMENT_SVRTYPE = The Server type Of Payment [Fixed value: 012]

PAYMENT_SVRCONDID = The conditional code of Payment [Fixed value: 81]

PAYMENT_RETURNFIELDS = The Return fields Of Payment transaction.

ROLLBACK_MSGTYPE = The Message Type of Rollback transaction [Fixed value:0200]

ROLLBACK_BITMAP = The Bitmap Value of Rollback Transaction.

CHECKIN_MSGTYPE = The Message Type of Check-In [Fixed value: 0200]

CHECKIN_BITMAP = The Bitmap Value of Check-In.

CHECKIN_NETMNGCODE = The Management Code of Check-In transaction [Fixed value: 161]

CHECKIN_RETURNFIELDS = The Return fields of CheckIn transaction.

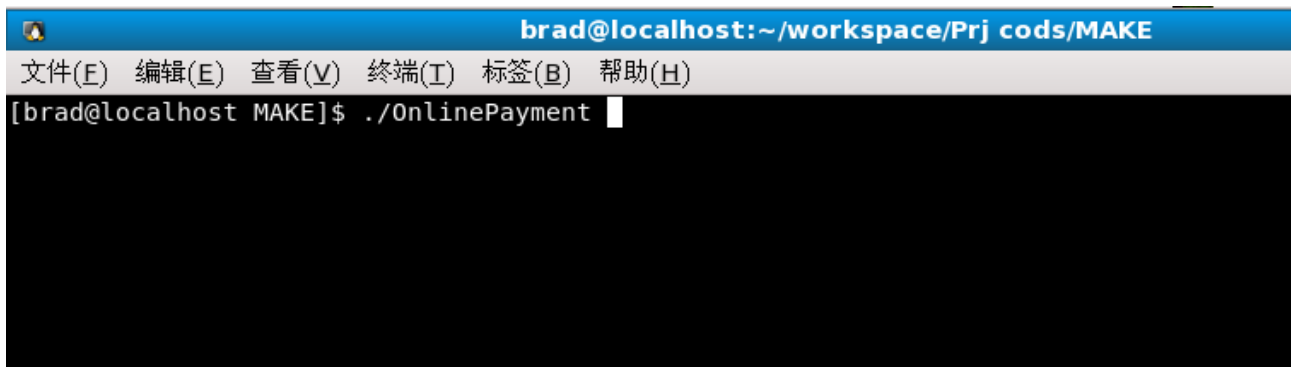
APPLYRESETPWD_MSGTYPE = The Message Type of Applying for KEY [Fixed value: 0200]

APPLYRESETPWD_BITMAP = The Bitmap Value of Applying for KEY.

APPLYRESETPWD_NETMNGCODE = The Network management Code. [Fixed value: 101]

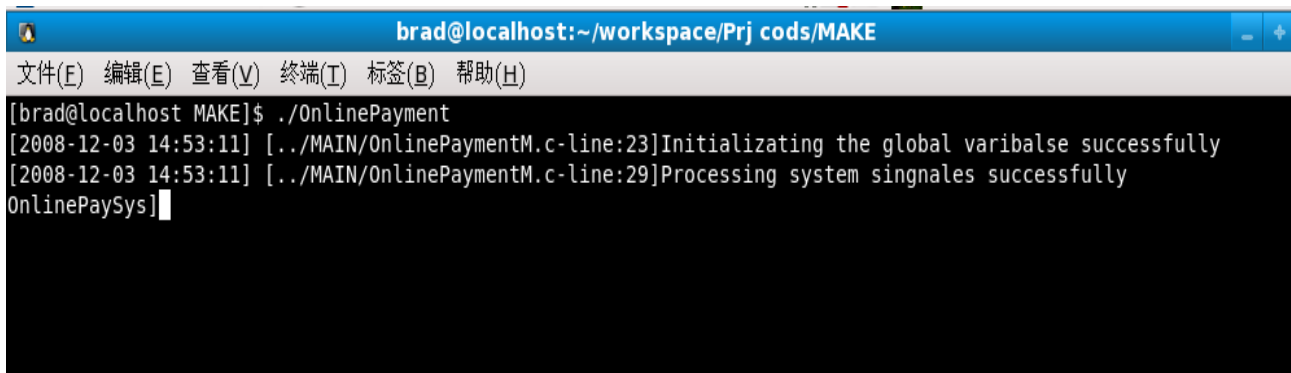
Start up & Shutdown System

In order to start up the system, first of all you should enter the folder where executable file stored. Then type the command as following picture shows:



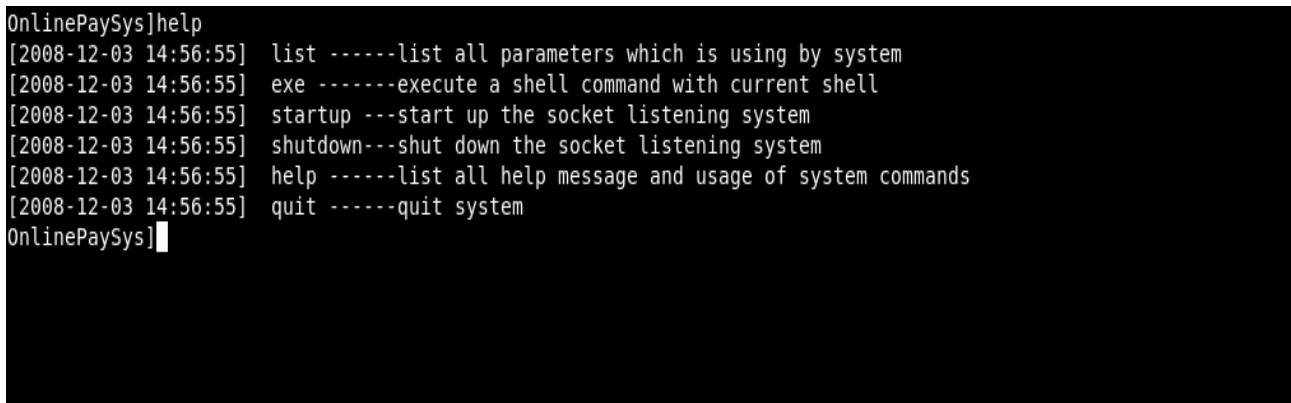
```
brad@localhost:~/workspace/Prj cods/MAKE
文件(E) 编辑(E) 查看(V) 终端(T) 标签(B) 帮助(H)
[brad@localhost MAKE]$ ./OnlinePayment
```

After the system is started up, some information will be printed on screen as following picture shows:



```
brad@localhost:~/workspace/Prj cods/MAKE
文件(E) 编辑(E) 查看(V) 终端(T) 标签(B) 帮助(H)
[brad@localhost MAKE]$ ./OnlinePayment
[2008-12-03 14:53:11] [../MAIN/OnlinePaymentM.c-line:23]Initializing the global varibalse successfully
[2008-12-03 14:53:11] [../MAIN/OnlinePaymentM.c-line:29]Processing system singnales successfully
OnlinePaySys]
```

If you want to get help , You can run “help” command to show the help information. As following picture shows:



```
OnlinePaySys]help
[2008-12-03 14:56:55] list -----list all parameters which is using by system
[2008-12-03 14:56:55] exe -----execute a shell command with current shell
[2008-12-03 14:56:55] startup ---start up the socket listening system
[2008-12-03 14:56:55] shutdown---shut down the socket listening system
[2008-12-03 14:56:55] help -----list all help message and usage of system commands
[2008-12-03 14:56:55] quit -----quit system
OnlinePaySys]
```

To show the system parameters which are used by system, Pleas Run “list” command. Just as following picture shows:

```
OnlinePaySys]list
[System parameters as following]

*****
Listen IP:127.0.0.1      Listen Port:8080
Remote IP:127.0.0.1     Remote PORT:8090
TimeOut Value:30(:sec)

*****
OnlinePaySys]
```

If you want to start up the service, You can run “startup” command to startup the service process. After service is started up successfully, some information is printed on screen. As following Picture shows:

```
OnlinePaySys]statup
[2008-12-03 15:02:58] Invalid Command, please re-input your command again or use 'help' command to list all comm
and usages
OnlinePaySys]startup
[2008-12-03 15:03:06] Begin Listening thread...
[2008-12-03 15:03:06] The params of socket.[IP:127.0.0.1][Port:8080][TimeOutValue:30]
[2008-12-03 15:03:06] Create the socket successfully...
[2008-12-03 15:03:06] Bind the socket successfully,then it will start listening...
OnlinePaySys][2008-12-03 15:03:06] Start Listeining successfully...
[2008-12-03 15:03:06] Waitting for the client connections....

```

If you run the invalid command, system will raise the error information. As above picture shows.

If You want to shutdown your service, you can run “shutdown” to close the connections and shutdown the service. As following picture shows:

```
OnlinePaySys]startup
[2008-12-03 15:03:06] Begin Listening thread...
[2008-12-03 15:03:06] The params of socket.[IP:127.0.0.1][Port:8080][TimeOutValue:30]
[2008-12-03 15:03:06] Create the socket successfully...
[2008-12-03 15:03:06] Bind the socket successfully,then it will start listening...
OnlinePaySys][2008-12-03 15:03:06] Start Listeining successfully...
[2008-12-03 15:03:06] Waitting for the client connections....

OnlinePaySys]shutdown
OnlinePaySys]
```

If want to run the Linux/Unix system command in our system, you can run “exe your-Linux-command” to run the Linux system command in current shell. As following picture shows:

```
OnlinePaySys]exe ls -l
总计 364
-rw-rw-r-- 1 brad brad 21701 11-22 10:41 20081122.raw
-rw-rw-r-- 1 brad brad 1365 12-03 15:03 20081203.raw
-rw-rw-r-- 1 brad brad 15156 11-10 19:54 EncryptFun.o
-rw-rw-r-- 1 brad brad 11540 11-08 19:37 LogFiles.o
-rw-rw-r-- 1 brad brad 3347 11-11 19:10 Makefile
-rwxrwxr-x 1 brad brad 127661 11-23 14:55 OnlinePayment
-rw-rw-r-- 1 brad brad 4240 11-22 10:08 OnlinePaymentM.o
-rw-rw-r-- 1 brad brad 14240 11-14 19:59 PosCommun.o
-rw-rw-r-- 1 brad brad 41112 11-23 14:55 PosSysPub.o
-rw-rw-r-- 1 brad brad 15500 11-23 12:16 ProcessCmd.o
-rw-rw-r-- 1 brad brad 14532 11-15 23:16 PublicFuncs.o
-rw-rw-r-- 1 brad brad 7944 11-08 19:37 SettingFiles.o
-rw-rw-r-- 1 brad brad 3040 11-11 19:59 SqlInterface.o
-rw-rw-r-- 1 brad brad 3525 12-03 14:41 sysconfig.cfg
-rw-rw-r-- 1 brad brad 49184 11-23 12:16 usocket.o
OnlinePaySys]
```

After you run the “quit” command, we will end the system service process and back to Linux Shell. As following picture shows:

```
-rw-rw-r-- 1 brad brad 3040 11-11 19:59 SqlInterface.o
-rw-rw-r-- 1 brad brad 3525 12-03 14:41 sysconfig.cfg
-rw-rw-r-- 1 brad brad 49184 11-23 12:16 usocket.o
OnlinePaySys]quit
[brad@localhost MAKE]$
```

So far, We have show you all functions of system. Wish you can enjoy that. - :)

Others

If you have any wonder or question , You can call me or mail your questions to me.

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