

## Network Information Check

### Summary

It is to check network information including the IP ADDRESS, MAC ADDRESS and PortScan list.

This function is included in the Egovframework common component element technology.

### Description

- ① Function to get the system IP ADDRESS;
- ② Function to get the system MAC ADDRESS
- ③ Function to get the system PortScan information

### Related Sources

Type	Corresponding Sources	Description	Remarks
Service	egovframework.com.utl.service.EgovNetworkState.java	An element technology class on checking the network information	Network information
JSP	WEB_INF/jsp/egovframework/cmm/utl/EgovNetworkInfo.jsp	A test page	

### Method

Output	Method	Description	Details
String	getMyIPAddress()	IP ADDRESS Search	Returning the System IP ADDRESS
String	getMyMACAddress(String IP_ADDRESS)	System MAC Address Search	Returning the System MAC Address
List	getMyPortScan()	PortScan information	Returning the PortScan list

### Environmental Settings

- (IP Address: Info Inquiry)

```
InetAddress InetA = InetAddress.getLocalHost ();  
addrIP = InetA.getHostAddress();
```

- (MAC Address for Windows: Info Inquiry)

```
String [] execStr = { "nbtstat", "- A", localIP };
```

- (Port List for Windows: Info Inquiry)

```
String [] execStr = { "netstat", "- an" };
```

- (Port List for Windows: Info Inquiry)

```
String [] execStr = { "netstat", "- an" };
```

- getNetWorkInfo.sh (Unix Network Info Inquiry Script)

```
# Network Info Shell Script
```

```
SHELL.UNIX.getNetWorkInfo= /product/jeus/egovProps/prg/getNetWorkInfo.sh
```

```

# MAC
if [ $1 == "MAC" ]
then
    netstat - v $2 | grep "Hardware Address " | awk '{print $3}'
fi

# IP
if [ $1 == "IP" ]
then
    prtconf | grep "IP Address" | awk '{print $3}'
fi

# SM
if [ $1 == "SM" ]
then
    prtconf | grep "Subnet Mask " | awk '{print $3}'
fi

# GW
if [ $1 == "GW" ]
then
    prtconf | grep "Gateway" | awk '{print $2}'
fi

# Domain Name
if [ $1 == "DN" ]
then
    hostname
fi

# DNS
if [ $1 == "DNS" ]
then
    host $2 | awk '{print $2}'
fi

if [ $1 == "SCAN" ]
then
    netstat - na | egrep 'tcp|udp'
fi

```

### **Manual**

```

import egovframework.com.utl.sim.service.EgovNetworkState;

// 1. IP Address Inquiry
myIPAddress = EgovNetworkState.getMyIPAddress();

// 2. Mac Address Inquiry
myMACAddress = EgovNetworkState.getMyMACAddress(myIPAddress);

// 3. Port List Inquiry
List<String > list = EgovNetworkState.getMyPortScan();
Iterator<String> it = list.iterator();
while (it.hasNext()) {
    String text = (String) it.next();
}

```

## ***References***

N/A