

# **ECS 03 01 Manual Configuration**

**Prepared by:**

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**ERICSSON**

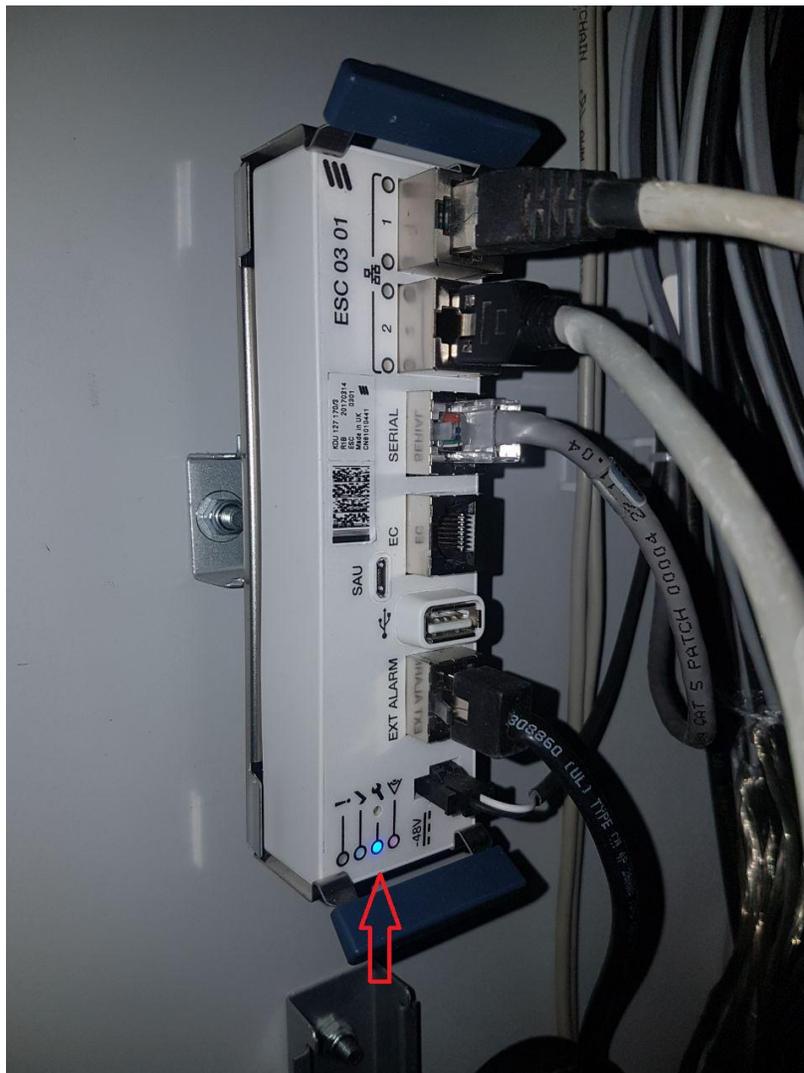
## Step 1:

Do the following to enter the **full maintenance** mode:

Bring the ESC into full maintenance mode by pressing the maintenance button for 4 seconds.

Use a watch to avoid pressing the button for more than 4 seconds.

The maintenance indicator, marked turns on with a steady blue light when the button is released.

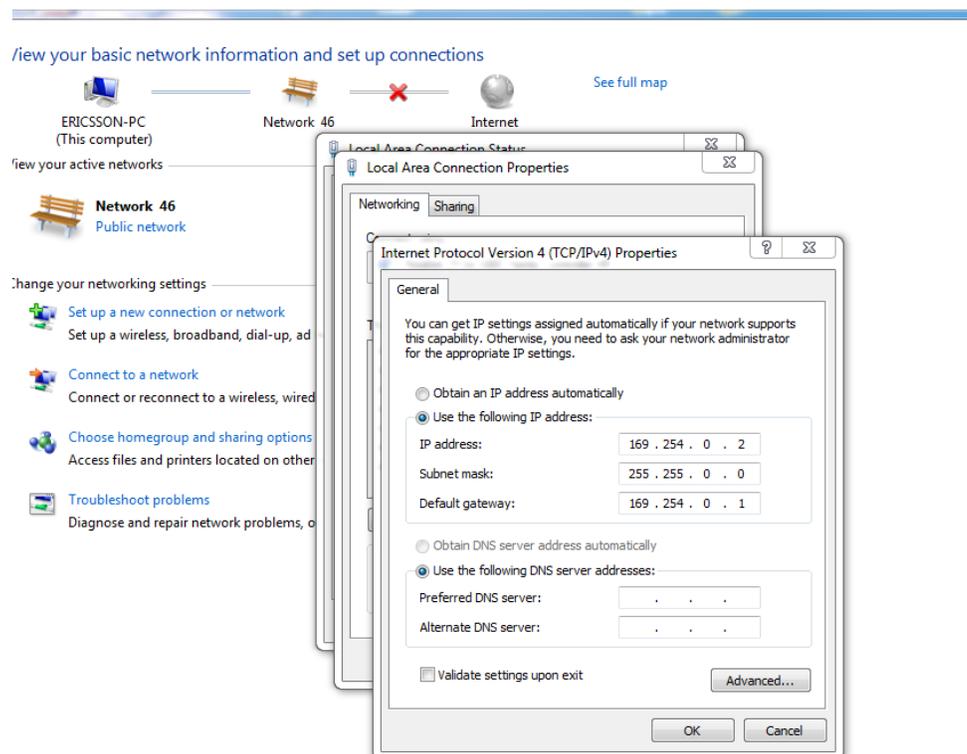


## Step 2:

Connect an Ethernet cable from the computer to Ethernet port 2 on the ESC.

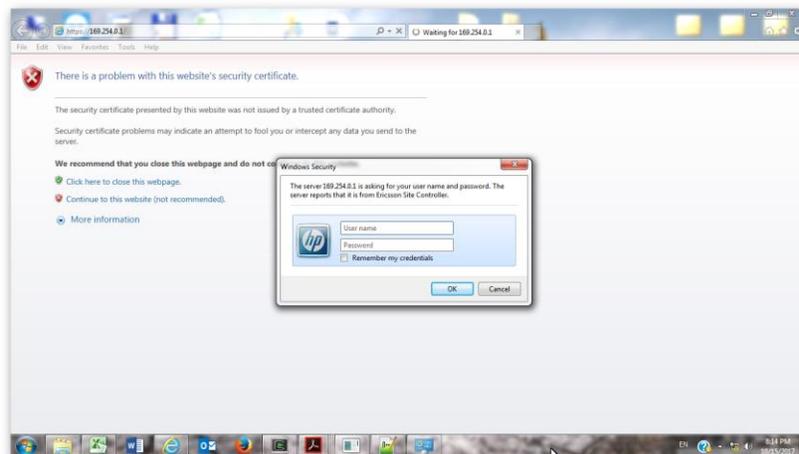
Set computer IP as follows:

- **169.254.0.2** as IP address
- **255.255.0.0** as subnet mask
- **169.254.0.1** as default gateway



## Step 3:

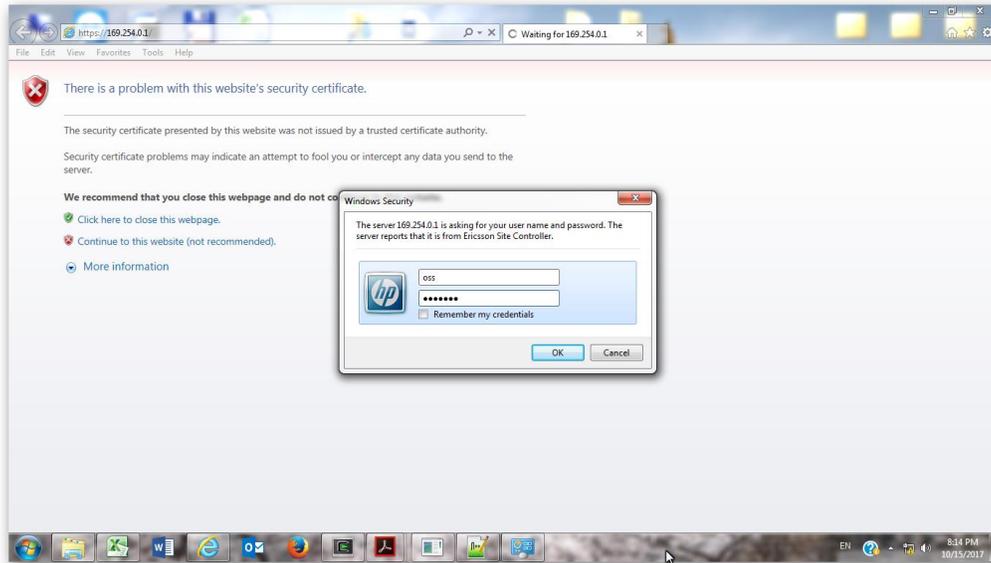
Open a web browser and enter IP address **169.254.0.1** into the address field.



Log in using default username and password.

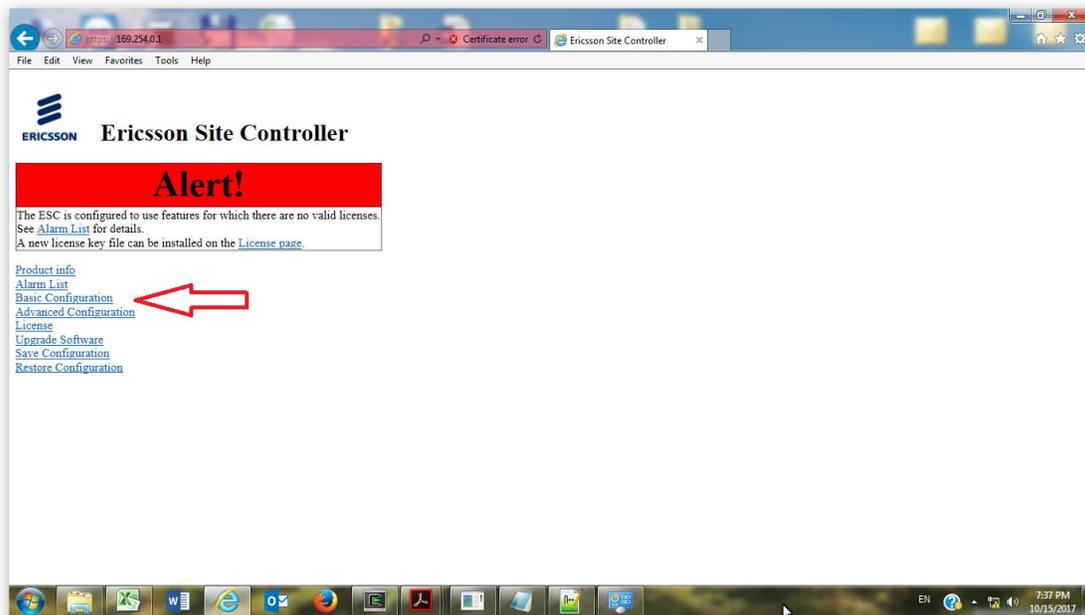
Username: **oss**

Password: **default**



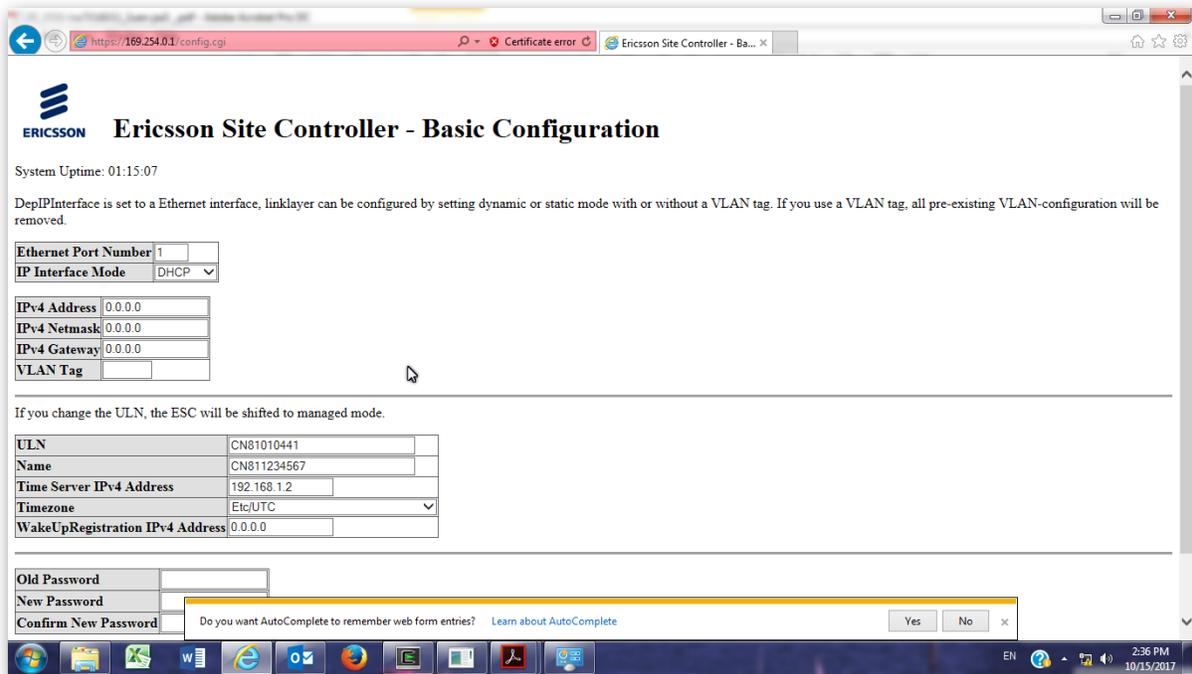
## Step 4:

Click on the **Basic Configuration** link in the menu.



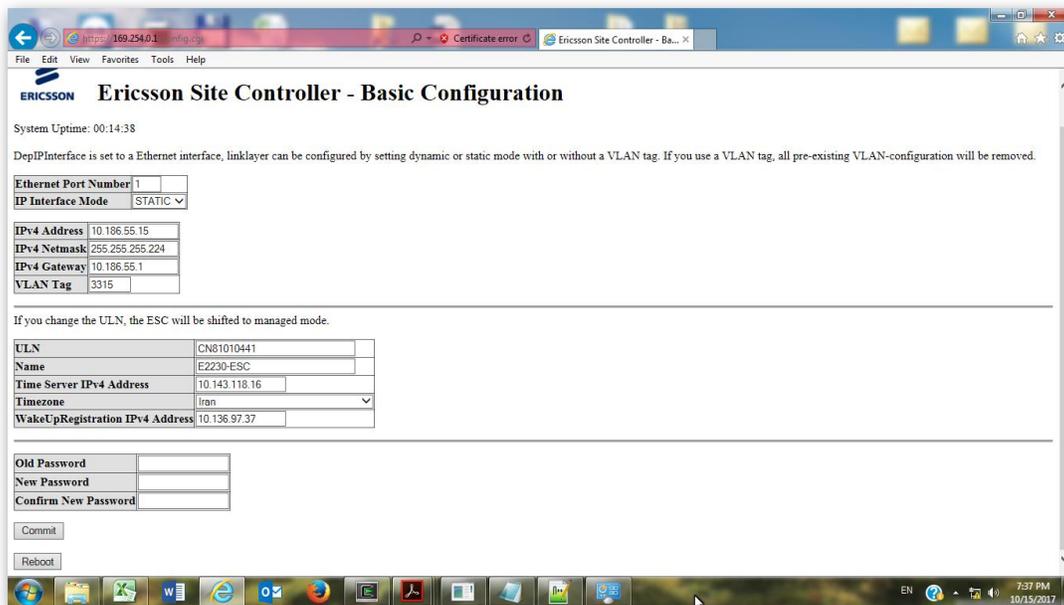
Do the following to edit the basic configuration settings:

Enter the information into the text fields and click the **Commit** button once.



Example for E2230:

Defined IP and VLAN for ESC visibility.

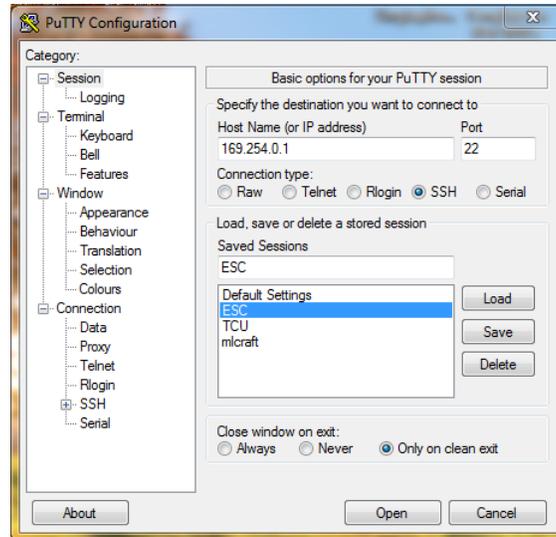


## Step 5:

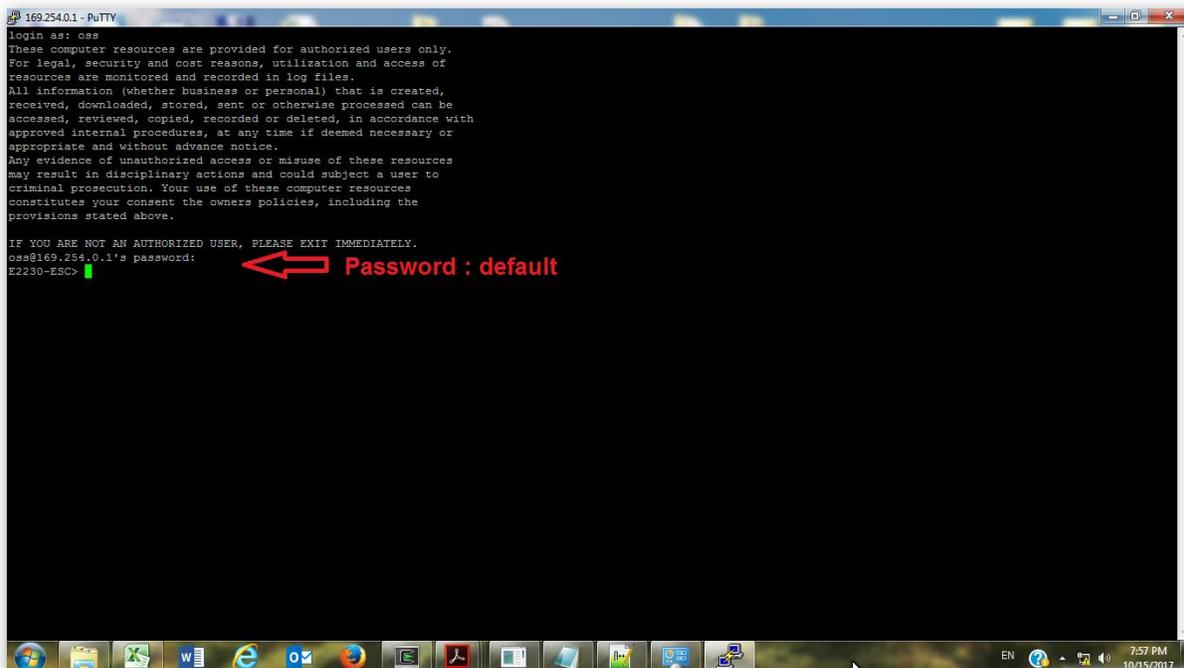
### Configure Digital Alarms

The digital alarms from the battery cabinet are configured by accessing the Cabinet Controller through SSH which can be done either by locally connected PC or remotely.

Log on to the Cabinet Controller through its IP address with an SSH client:



Enter the username and password of the Cabinet Controller:



Copy the text below and launch them through the SSH client: ( script )

```
169.254.0.1 - PuTTY
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital1,AlarmEntry=ACTIVE additionalText ""
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2 inputActive=activeWhenOpen
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE eventType equipmentAlarm
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE perceivedSeverity major
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE probableCause x733EquipmentMalfunction
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE specificProblem "Door Alarm Battery Cabinet"
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE additionalText ""
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3 inputActive=activeWhenOpen
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE eventType equipmentAlarm
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE perceivedSeverity major
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE probableCause x733EquipmentMalfunction
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE specificProblem "Circuit Breaker Battery Cabinet"
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE additionalText ""
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4 inputActive=activeWhenOpen
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE eventType equipmentAlarm
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE perceivedSeverity major
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE probableCause x733EquipmentMalfunction
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE specificProblem "Battery Alarm"
OperationSucceeded
E2230-ESC> setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE additionalText ""
OperationSucceeded
E2230-ESC> commit t2
OperationSucceeded
E2230-ESC> endtransaction t2
OperationSucceeded
E2230-ESC>
```

```
startTransaction t2

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital1 inputActive=activeWhenOpen

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital1,AlarmEntry=ACTIVE eventType
equipmentAlarm

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital1,AlarmEntry=ACTIVE perceivedSeverity major

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital1,AlarmEntry=ACTIVE probableCause
x733EquipmentMalfunction

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital1,AlarmEntry=ACTIVE specificProblem "Climate
Alarm Battery Cabinet"

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital1,AlarmEntry=ACTIVE additionalText ""

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2 inputActive=activeWhenOpen

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE eventType
equipmentAlarm

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE perceivedSeverity major

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE probableCause
x733EquipmentMalfunction

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE specificProblem "Door
Alarm Battery Cabinet"

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2,AlarmEntry=ACTIVE additionalText ""

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3 inputActive=activeWhenOpen

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE eventType
equipmentAlarm

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE perceivedSeverity major

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE probableCause
x733EquipmentMalfunction

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE specificProblem "Circuit
Breaker Battery Cabinet"

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3,AlarmEntry=ACTIVE additionalText ""

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4 inputActive=activeWhenOpen

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE eventType
equipmentAlarm

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE perceivedSeverity major

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE probableCause
x733EquipmentMalfunction

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE specificProblem "Battery
Alarm"

setMOAttribute t2 SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4,AlarmEntry=ACTIVE additionalText ""

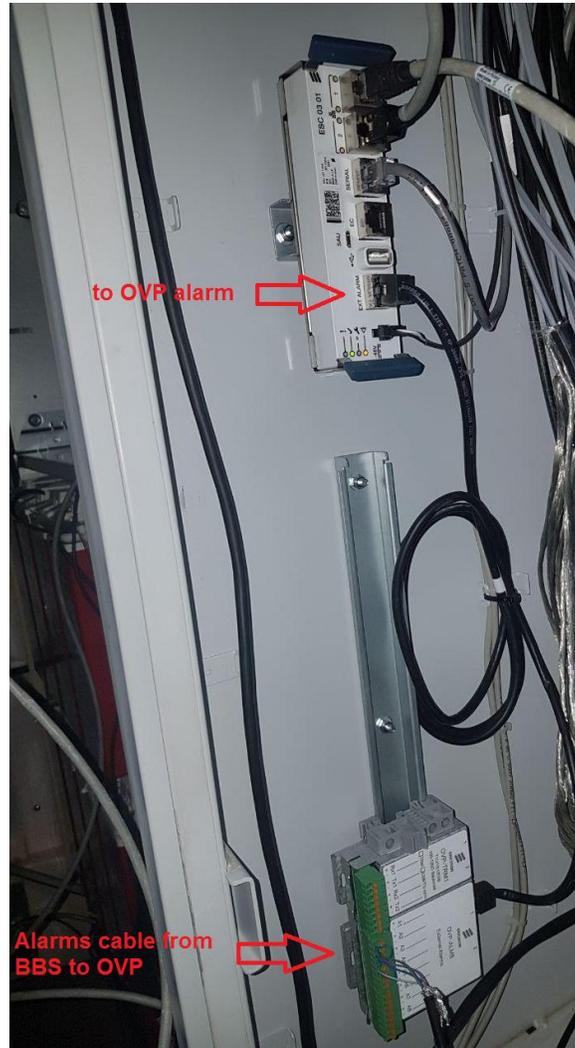
commit t2

endtransaction t2
```

## Step 6:

### EXTERNAL ALARMS

Cables connection:



Define EXTERNAL ALARMS on ESC:

- Enter advanced configuration on main menu



- Enter EXTERNAL ALARM PORTS
- Define and set Alarms one by one

**Ericsson Site Controller - External Alarm Ports**

Instance	Equipment	Port	State	ActiveState	AdditionalText	Severity
SDN=0,AlarmPort=1		1	Active	activeWhenOpen	BBU DOOR	minor
SDN=0,AlarmPort=2		2	Inactive	activeWhenOpen	BBU CLU	minor
SDN=0,AlarmPort=3		3	Inactive	activeWhenOpen	BBU TEMP	minor
SDN=0,AlarmPort=4		4	Inactive	activeWhenClosed		minor
SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Door	SDN=0,PowerManager=HGM,PowerSystem=M530B	6	Inactive	activeWhenClosed		major
SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=ClimateSystem	SDN=0,PowerManager=HGM,PowerSystem=M530B	5	Inactive	activeWhenClosed		major
SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital1	SDN=0,PowerManager=HGM,PowerSystem=M530B	1	Inactive	activeWhenClosed		major
SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital2	SDN=0,PowerManager=HGM,PowerSystem=M530B	2	Inactive	activeWhenClosed		major
SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital3	SDN=0,PowerManager=HGM,PowerSystem=M530B	3	Inactive	activeWhenClosed		major
SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Digital4	SDN=0,PowerManager=HGM,PowerSystem=M530B	4	Inactive	activeWhenClosed		major

Equipment: (Internal) Port: 5 Action: Create

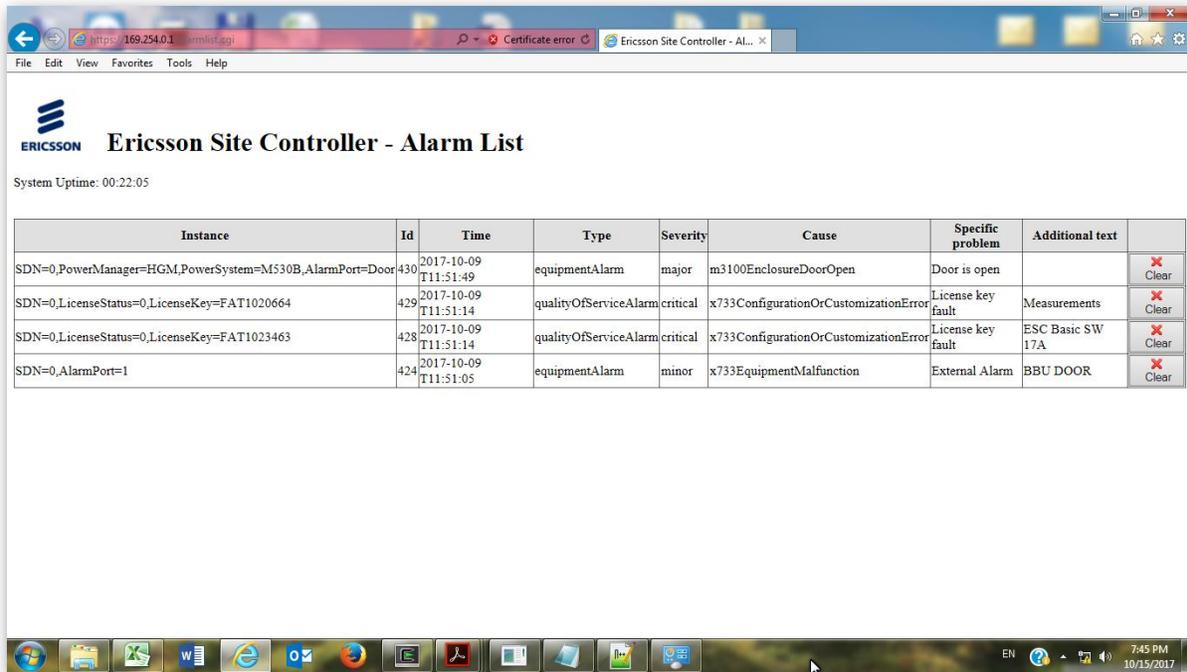
Reload

**Ericsson Site Controller - External Alarm Ports**

Equipment	Port	State	ActiveState	AdditionalText	Severity	ProbableCause	Set	Delete
	1	Active	activeWhenOpen	BBU DOOR	minor	x733EquipmentMalfunction	Set	Delete
	2	Inactive	activeWhenOpen	BBU CLU	minor	x733EquipmentMalfunction	Set	Delete
	3	Inactive	activeWhenOpen	BBU TEMP	minor	x733EquipmentMalfunction	Set	Delete
	4	Inactive	activeWhenClosed		minor	x733EquipmentMalfunction	Set	Delete
armPort=Door	6	Inactive	activeWhenClosed		major	m3100EnclosureDoorOpen	Set	Delete
armPort=ClimateSystem	5	Inactive	activeWhenClosed		major	x733EquipmentMalfunction	Set	Delete
armPort=Digital1	1	Inactive	activeWhenClosed		major	x733EquipmentMalfunction	Set	Delete
armPort=Digital2	2	Inactive	activeWhenClosed		major	x733EquipmentMalfunction	Set	Delete
armPort=Digital3	3	Inactive	activeWhenClosed		major	x733EquipmentMalfunction	Set	Delete
armPort=Digital4	4	Inactive	activeWhenClosed		major	x733EquipmentMalfunction	Set	Delete

## Step 7:

Enter ALARM LIST on main menu to see alarms:

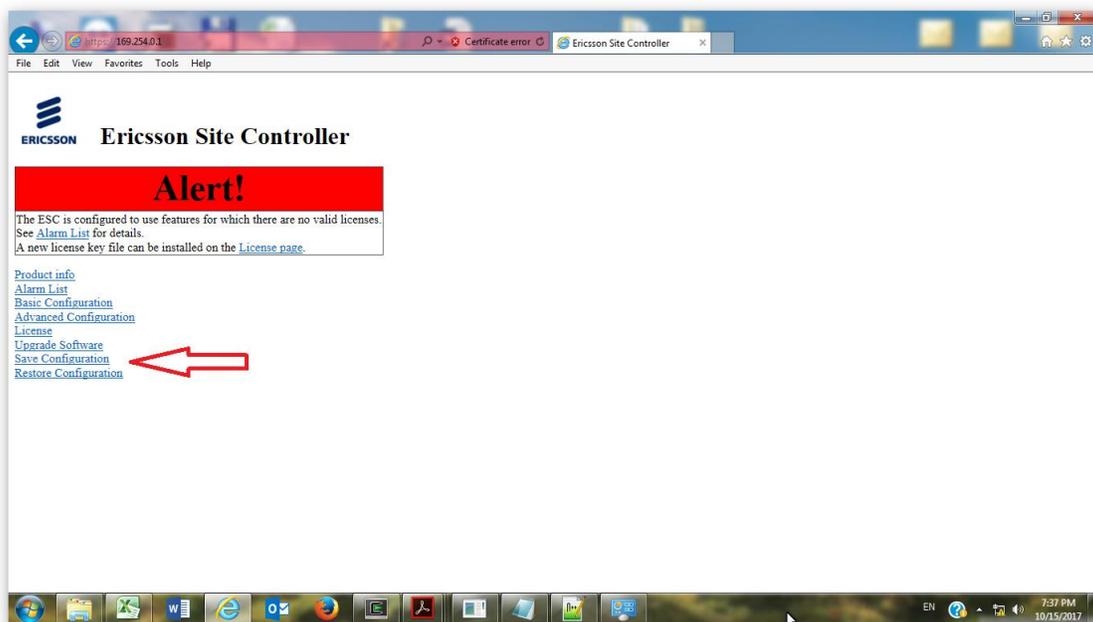


Ericsson Site Controller - Alarm List

System Uptime: 00:22:05

Instance	Id	Time	Type	Severity	Cause	Specific problem	Additional text	
SDN=0,PowerManager=HGM,PowerSystem=M530B,AlarmPort=Door	430	2017-10-09 T11:51:49	equipmentAlarm	major	m3100EnclosureDoorOpen	Door is open		Clear
SDN=0,LicenseStatus=0,LicenseKey=FAT1020664	429	2017-10-09 T11:51:14	qualityOfServiceAlarm	critical	x733ConfigurationOrCustomizationError	License key fault	Measurements	Clear
SDN=0,LicenseStatus=0,LicenseKey=FAT1023463	428	2017-10-09 T11:51:14	qualityOfServiceAlarm	critical	x733ConfigurationOrCustomizationError	License key fault	ESC Basic SW 17A	Clear
SDN=0,AlarmPort=1	424	2017-10-09 T11:51:05	equipmentAlarm	minor	x733EquipmentMalfunction	External Alarm	BBU DOOR	Clear

**Recommendation:** Enter SAVE CONFIGURATION on main menu to save configuration on PC:



Ericsson Site Controller

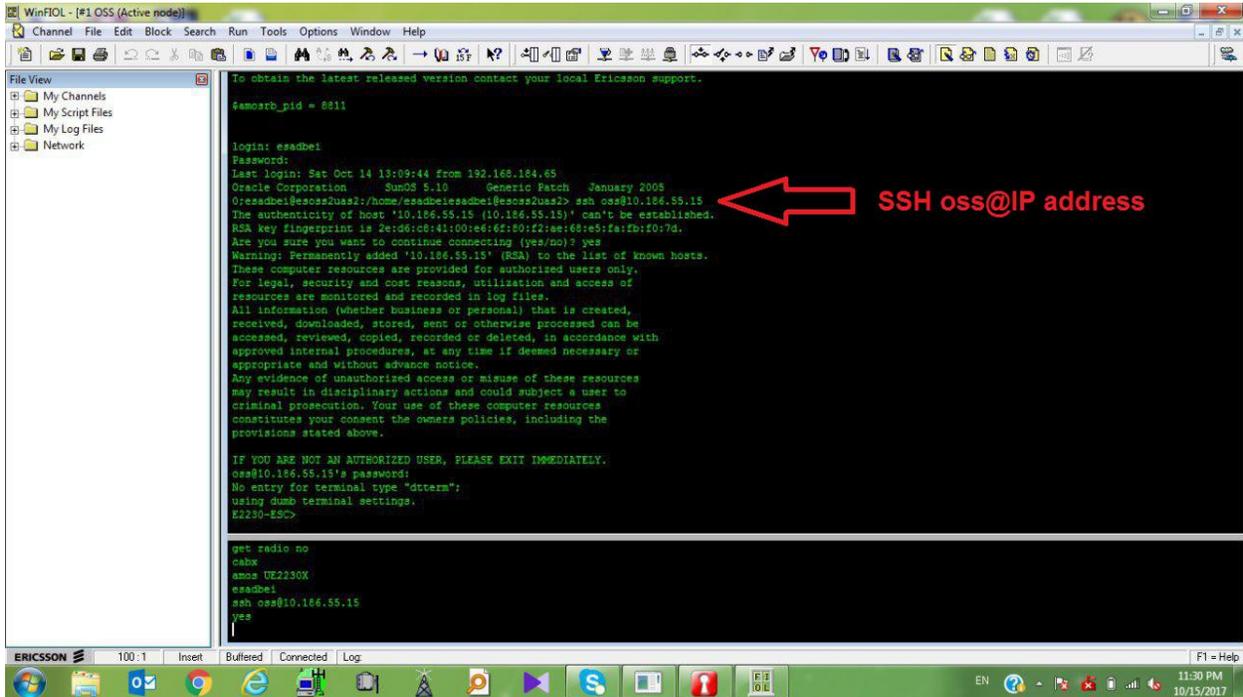
**Alert!**

The ESC is configured to use features for which there are no valid licenses. See [Alarm List](#) for details. A new license key file can be installed on the [License](#) page.

[Product info](#)  
[Alarm List](#)  
[Basic Configuration](#)  
[Advanced Configuration](#)  
[License](#)  
[Upgrade Software](#)  
[Save Configuration](#)  
[Restore Configuration](#)

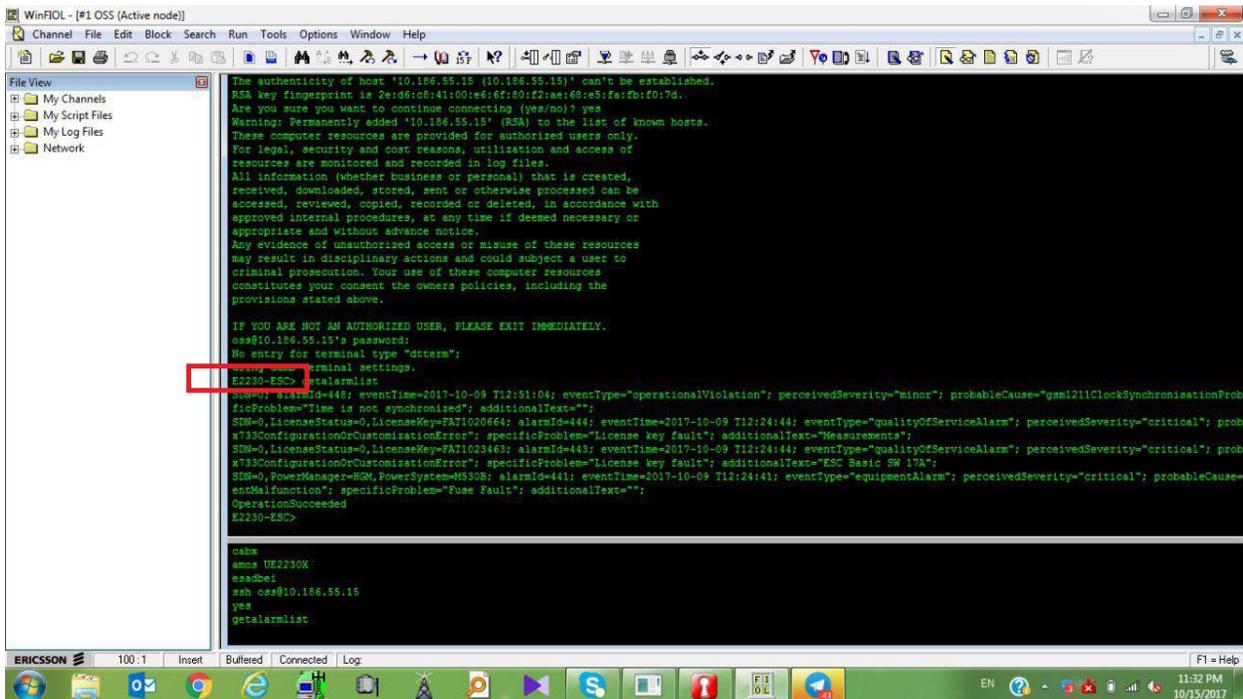
# Visibility on OSS

You can see in below snapshots that ESC is visible and alarms can be monitored on OSS.



```
WinFIOL - [#1 OSS (Active node)]
Channel File Edit Block Search Run Tools Options Window Help
File View
  My Channels
  My Script Files
  My Log Files
  Network
To obtain the latest released version contact your local Ericsson support.
$amorb_pid = 8811
login: esadbel
Password:
Last login: Sat Oct 14 13:09:44 from 192.168.184.65
Oracle Corporation SunOS 5.10 Generic Patch January 2005
Oresadbel@ecos2uas2:/home/esadbel$ ssh oss@10.186.55.15
The authenticity of host '10.186.55.15 (10.186.55.15)' can't be established.
RSA key fingerprint is 2e:d6:c8:41:00:e6:6f:80:f2:ae:68:e5:fa:fb:f0:7d.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.186.55.15' (RSA) to the list of known hosts.
These computer resources are provided for authorized users only.
For legal, security and cost reasons, utilization and access of
resources are monitored and recorded in log files.
All information (whether business or personal) that is created,
received, downloaded, stored, sent or otherwise processed can be
accessed, reviewed, copied, recorded or deleted, in accordance with
approved internal procedures, at any time if deemed necessary or
appropriate and without advance notice.
Any evidence of unauthorized access or misuse of these resources
may result in disciplinary actions and could subject a user to
criminal prosecution. Your use of these computer resources
constitutes your consent the owners policies, including the
provisions stated above.
IF YOU ARE NOT AN AUTHORIZED USER, PLEASE EXIT IMMEDIATELY.
oss@10.186.55.15's password:
No entry for terminal type "dterm";
using dumb terminal settings.
E2230-ESC>
get radio no
cabs
amos UE2230X
esadbel
ssh oss@10.186.55.15
yes
```

← SSH oss@IP address



```
WinFIOL - [#1 OSS (Active node)]
Channel File Edit Block Search Run Tools Options Window Help
File View
  My Channels
  My Script Files
  My Log Files
  Network
The authenticity of host '10.186.55.15 (10.186.55.15)' can't be established.
RSA key fingerprint is 2e:d6:c8:41:00:e6:6f:80:f2:ae:68:e5:fa:fb:f0:7d.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.186.55.15' (RSA) to the list of known hosts.
These computer resources are provided for authorized users only.
For legal, security and cost reasons, utilization and access of
resources are monitored and recorded in log files.
All information (whether business or personal) that is created,
received, downloaded, stored, sent or otherwise processed can be
accessed, reviewed, copied, recorded or deleted, in accordance with
approved internal procedures, at any time if deemed necessary or
appropriate and without advance notice.
Any evidence of unauthorized access or misuse of these resources
may result in disciplinary actions and could subject a user to
criminal prosecution. Your use of these computer resources
constitutes your consent the owners policies, including the
provisions stated above.
IF YOU ARE NOT AN AUTHORIZED USER, PLEASE EXIT IMMEDIATELY.
oss@10.186.55.15's password:
No entry for terminal type "dterm";
using dumb terminal settings.
E2230-ESC> getalarmlist
SUM=0; alarmId=448; eventTime=2017-10-09 T12:51:04; eventType="operationalViolation"; perceivedSeverity="minor"; probableCause="gsm1211ClockSynchronisationProb
ficProblem="Time is not synchronised"; additionalText="";
SDM=0; licenseStatus=0; licenseKey=FA71020664; alarmId=444; eventTime=2017-10-09 T12:24:44; eventType="qualityOfServiceAlarm"; perceivedSeverity="critical"; prob
x1330ConfigurationOrCustomizationError"; specificProblem="License key fault"; additionalText="Measurements";
SDM=0; licenseStatus=0; licenseKey=FA71023463; alarmId=443; eventTime=2017-10-09 T12:24:44; eventType="qualityOfServiceAlarm"; perceivedSeverity="critical"; prob
x1330ConfigurationOrCustomizationError"; specificProblem="License key fault"; additionalText="ESC Basic SW 17A";
SDM=0; PowerManager=RM; PowerSystem=M5308; alarmId=441; eventTime=2017-10-09 T12:24:41; eventType="equipmentAlarm"; perceivedSeverity="critical"; probableCause=
entMalfunction"; specificProblem="Fuse Fault"; additionalText="";
OperationSucceeded
E2230-ESC>
cabs
amos UE2230X
esadbel
ssh oss@10.186.55.15
yes
getalarmlist
```