
REPLACEMENT OF L2 SWITCHES

PROCEDURE

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| Vendor Name: | Godrej and Boyce Mfg. Co. Ltd. | Document No | IOWMS/SOP/4 |
| Contract No: | GEM/2023/B/4123905 | Revision No | 00 |
| Contract Date: | 7th June 2024 | Date | |

Procedure

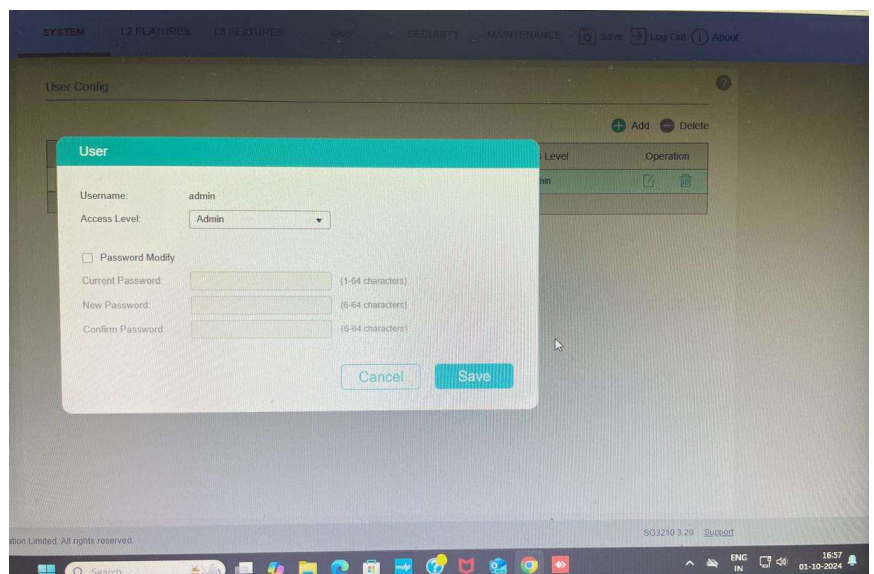
1. BPCL Admin to contact Godrej site person if Switch is to be replaced.
2. Godrej site person will do the validation checks on the Switch confirming that switch is faulty.
3. Godrej site person will note and take a picture of the Switch Serial No. for future reference.
4. He will communicate the Switch Serial No. with Godrej Head Office Team.
5. Godrej Team will get the new switch replaced from Switch Provider.
6. Once new switch reaches the site, Godrej site person will power on the switch.
7. Once new device is found to be correctly functional, then turn the Switch off. Open the device to remove USB connector.
8. Godrej site person will then remove the all the network cables from the existing Switch and put it back in the new switch in the same port position as that in old switch, so that same configuration of the earlier switch would be applicable to the new switch.
9. In SD WAN, LAN switch needs to have IP address for first time configuration for Godrej HO team to cross verify.
10. This setting can be removed by BPCL from SD WAN, after intimation from Godrej team.
11. Once switch is On, he will configure the new switch as per the procedure mentioned below.

General Settings

1. Kindly go to Viridi device Settings as mentioned above.
2. Based on the network settings of the Viridi Device, kindly put up the gateway IP in the Google Chrome URL, and check if it opens the Switch Webpage.
3. If no, kindly change IP address to the previous or next IP address as that of Viridi device, till the web page of the TP Link switch is opened.

User Settings

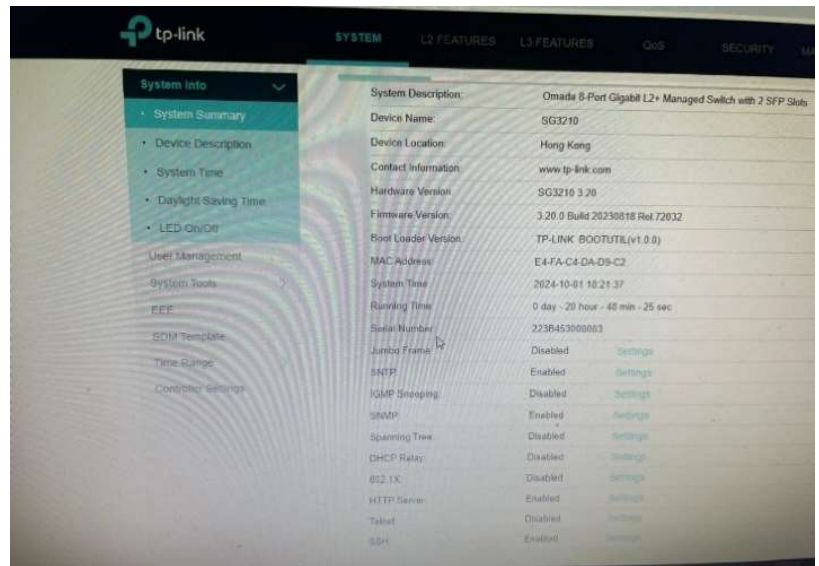
1. Once Switch Web Page is opened, kindly Login into the switch using default credentials.
Login: **admin**
Password: **admin**
2. Once logged in, there will be a menu popped up to change the default password.
3. Kindly change the default Admin password to a strong password consisting of Uppercase and Lowercase alphabets, numbers and a special key.



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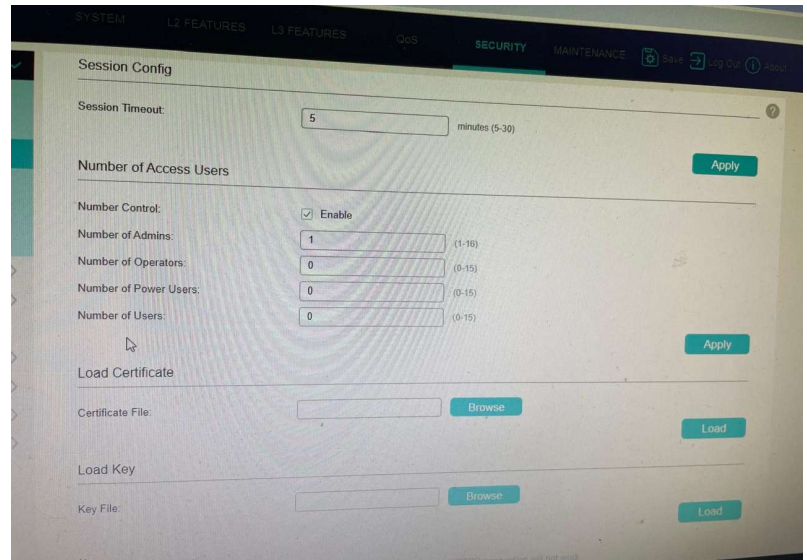
Procedure: Replacement of L2 Switch

4. The password can also be changed later by entering System.
5. Then to User Management
6. Check on Password Modify, so that the three fields below will get enabled.
7. Then enter the current password, new password and then confirm new password as per the Strong password policy. Then click on Save.
8. The new password for login page will then get saved.



Security Management

1. To impose the restriction on no. of Admin users, kindly go to Security.
2. Enable the Number Control.
3. Enter the Number of Operators to 1, so that only one Admin is created and can login to the System Settings. Click on Apply.
4. Also set the Session Timeout to be 5 Seconds. Click on Apply.

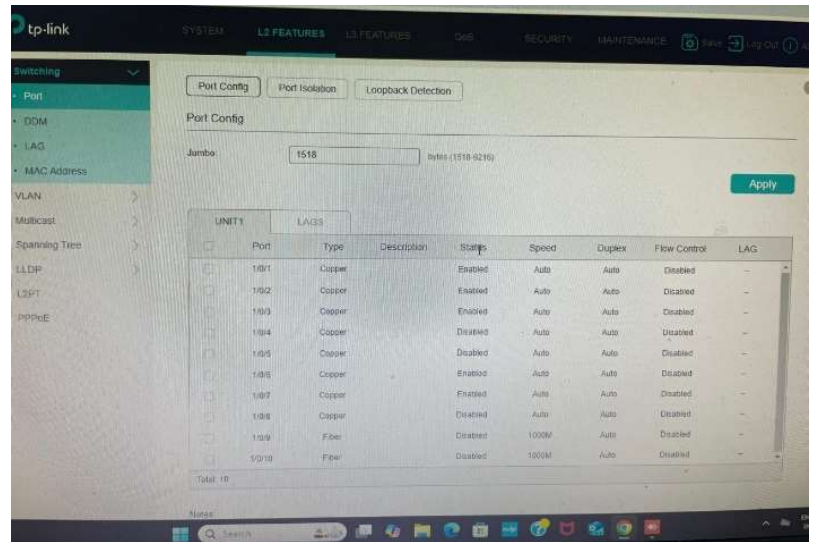


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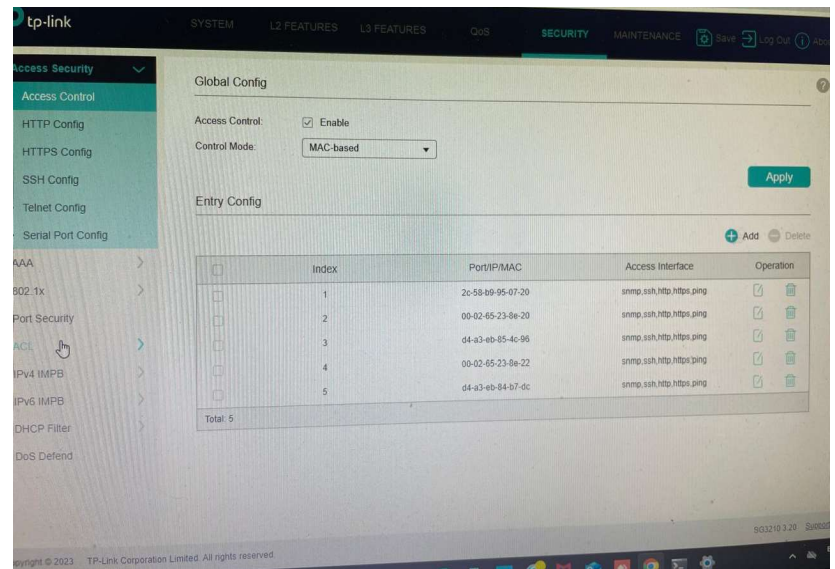
Port Hardening

1. Kindly enter L2 Features.
2. In switching, click on Port Config
3. Kindly Go to UNIT1
4. Select the physical ports which are not connected by selecting the checkboxes.
5. Kindly set the status as **Disabled**. Click on Apply.
6. This will disable all the open physical ports which are unused.



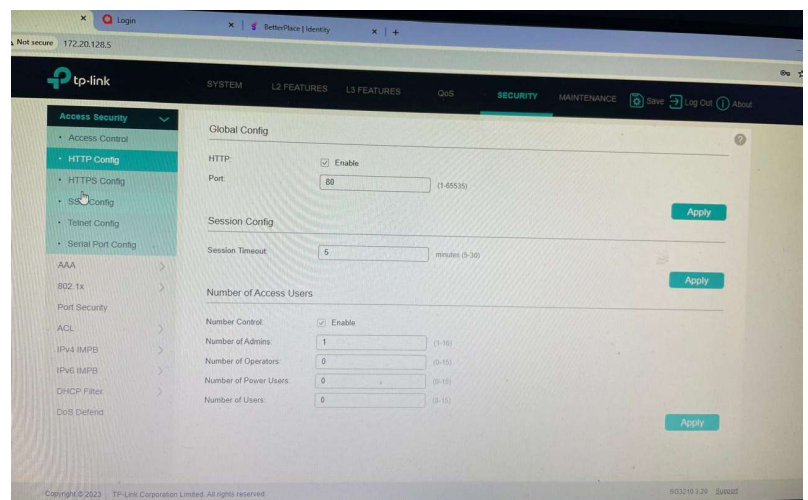
MAC ID Binding

1. Click on Security.
2. In Access Security, click on Access Control
3. In Global Config, Enable the Access Control
4. Select Control Mode to "MAC based"
5. Click on Add and kindly select all the protocols other than TELNET.
6. Then enter the respective MAC ID
7. Repeat the above process for the MAC IDs of all the Viridi devices as well as PC connected to TP Link Switch.
8. Click on Apply.



HTTP Configuration

1. Click on Security.
2. In Access Security, click on HTTP Config
3. Select HTTP Enable checkbox. Click Apply.
4. Set Session Timeout to minimum of 5 minutes. Click Apply.
5. Enable Number Control checkbox.
6. Set Number of Admins to 1. Click Apply.



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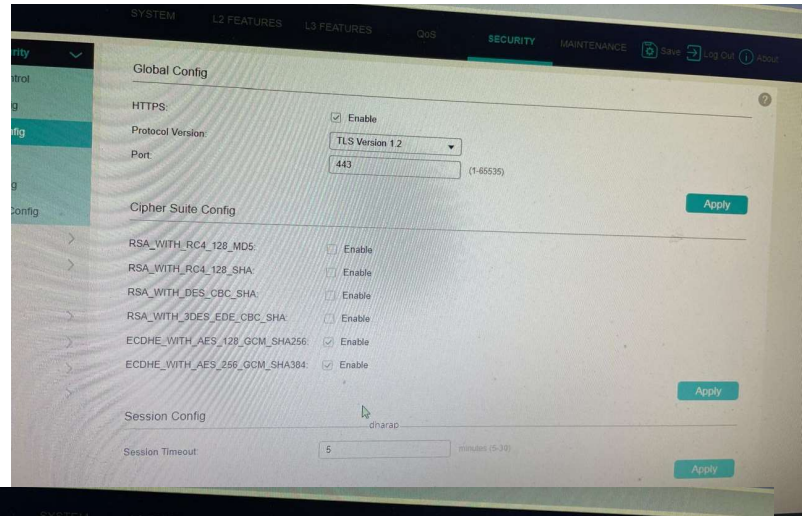
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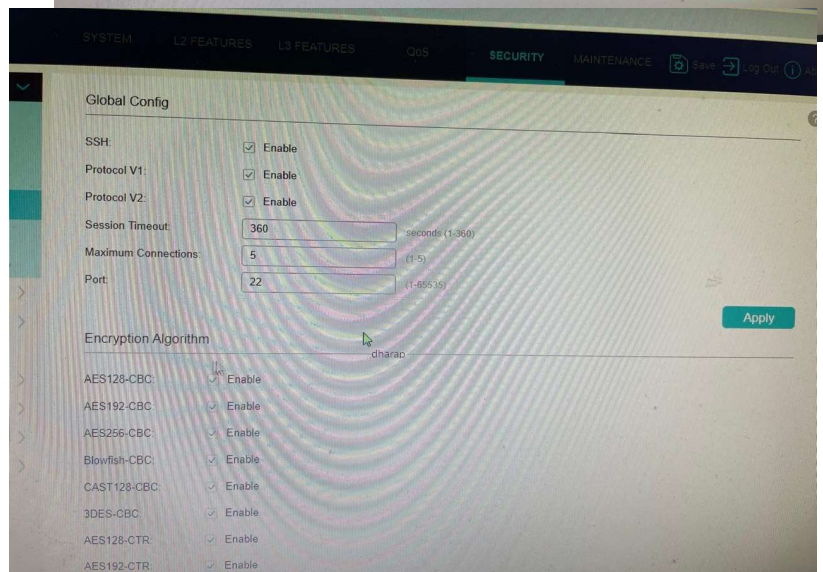
HTTPS Configuration

1. Click on Security.
2. In Access Security, click on HTTPS Config
3. Select HTTPS Enable checkbox. Click Apply.
4. In Session Config, set Session Timeout to minimum of 5 minutes. Click Apply.



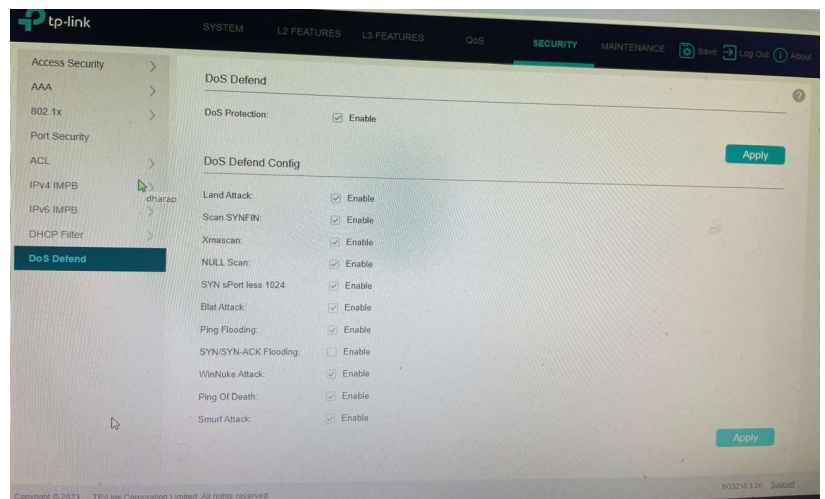
SSH Configuration

1. Click on Security.
2. In Access Security, click on SSH Config
3. Select SSH Enable checkbox. Click Apply.
4. Set Session Timeout to 360 seconds.



DoS Protection

1. Click on Security.
2. Click on DoS Defend. Click Apply.
3. Enable all the checkboxes in DoS Defend Config. Click Apply.



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