How to Activate a Layer 3 License Upgrade on Managed Switches
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Concepts

NETGEAR® Layer2 Next-Gen Edge (such as the GSM7228PS) and 10 Gigabit Aggregation (XSM7224S) Managed Switches can be upgraded to provide Layer 3 routing capabilities with the addition of a layer 3 license.

This app note describes how to activate software licenses. The products covered in this app note and the feature the license activates are:

- XSM7224S - IPv4/IPv6 routing and IP multicast routing

Components

The following requirements are needed when using this guide for implementation:

<table>
<thead>
<tr>
<th>Product</th>
<th>Model/Release</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>NETGEAR Layer 2 Fully Managed Switch</td>
<td>GSM7228PS, GSM7252PS, XSM7224S</td>
<td>GSM series firmware version 7.x and above, XSM series firmware version 8.x and above</td>
</tr>
</tbody>
</table>

Configuration Steps

Creating an Account at mynetgear

You can create an account at mynetgear, which allows you to view your registered products.

1. Use an Internet browser to go to https://my.netgear.com. A screen similar to the following displays.

   2. Click Continue if you not registered a product before or Log in if you are a returning user.

3. Enter the the product registration information.

   a. Enter your contact information and click Next.
b. Enter your switch serial number, date, and other information about your purchase, then click Next.

![NETGEAR Product Registration](image)

**NETGEAR Product Registration**

**Step 2 of 4 - Tell us about your NETGEAR product**

- Serial number:
- Date purchased:
- Purchase from:
- Where do you generally purchase your products:
- Was this product supplied by your ISP:
- Sample: Serial number is printed on the product

**Registering Your Product**

Before you can activate your license, you must register your product.

1. Use your Internet browser to go to [https://my.netgear.com](https://my.netgear.com) and click login/register.

![NETGEAR Service portal](image)

If you are a registered NETGEAR customer or wish to register, please click on login/register to submit your question.
2. Click login/register, and the following screen displays:

![NETGEAR Product Registration](image)

**NETGEAR Product Registration**

Thank you for buying a NETGEAR product! By registering your product, we can help you have a better experience using our products.

<table>
<thead>
<tr>
<th>First-time registration</th>
<th>Returning users</th>
</tr>
</thead>
<tbody>
<tr>
<td>There are several benefits to registering your NETGEAR products which includes:</td>
<td>If you already registered a product with NETGEAR, log in to your account</td>
</tr>
<tr>
<td>• Access to telephone support for your NETGEAR products</td>
<td>Email address:</td>
</tr>
<tr>
<td>• Special offers from NETGEAR only for registered customers</td>
<td>Password:</td>
</tr>
<tr>
<td>• An online list of all of your registered NETGEAR products</td>
<td>Login</td>
</tr>
<tr>
<td>• Activate your support contract(s)</td>
<td>Forgot your password?</td>
</tr>
</tbody>
</table>

3. If you have an account, enter your email address and password, and click Login. A screen similar to the following displays:

![My registered products](image)

**Note:** If you have previously registered products, you can click my registered products to see all the products you registered.

4. For a new switch, click register new product on the left hand pane to register the switch. NETGEAR recommends that you register all new products (switches).

**Activating a License Key for a Switch**

1. Obtain a license key from your VAR or NETGEAR authorized e-commerce portal.
2. Register your switch as described in Registering Your Product on the previous page.
3. With the license key at hand and the serial number of the switch, go to the NETGEAR product registration website, [https://my.netgear.com](https://my.netgear.com).
4. Click Activate license key for registered product.

You are directed to the Software License Registration website:

![Software License Registration](image)

Because the license key has not yet been activated for this product, the License Key field shows Activate.
5. Click **Activate**, and a screen displays for entering the license key.

![My registered products > GSM722BPS > Activate License Key](image1)

6. NETGEAR suggests you cut and paste the license key you received into the **License Key** field to avoid potential typing errors.

7. After the key is entered, click **Submit** to display the following screen:

![My registered products > GSM7252PS > Activate License Key](image2)

8. Click the **Download** button to save the license.dat file on your local drive.

9. Load the license.dat file onto the switch.
   a. Connect the PC with the license.dat file to the switch.
   b. Go to the switch and use either the CLI copy command or the GUI to download the license.dat file to the switch.
      - If you are using the CLI, use the parameter `nvram:license-key` when you download the license file. Assume tftp server is working on 10.100.5.13.
        ```
        (Switch) #copy tftp://10.100.5.13/XSM7224S-2ER1080U40004.lic nvram:license-key
        ```
      - If you are using the Web interface, be sure to select the file type as **license**.
        1. Go to the Maintenance > Download > HTTP File Download
        2. Select 'License Key' from the dropdown File Type.

![HTTP File Download](image3)
3. Click the button Browse…

4. Select your license data file in the open dialog.

5. Click **Apply** to download the license key.

10. After the file is successfully downloaded, reboot the switch.
    (Switch) #reload
    Management switch has unsaved changes. Would you like to save them now? (y/n) y
    Config file 'startup-config' created successfully.
    Configuration Saved!
    Are you sure you want to reload the stack? (y/n) y

11. The switch now has the license software enabled.

**Conclusion**

Following the steps above, we have successfully activated our layer 3 license and given our managed switch full layer 3 routing capabilities.