Epson Exploit

The first part of this vulnerability started with the discovery of Projectors on network then the Network vulnerability was used to access the projectors

- 1. Network vulnerability's
 - a. All Projectors on same VLAN as users
 - i. This allowed me to find and access IP of all projectors
 - ii. With this IP I could directly access the Projectors
 - iii. This is shown in Figure 1
 - b. Open ports 80 and 443
 - i. Both Ports allowed for access to web interface
 - ii. Both https and http allowed access to web interface of projector witch in normal operation would be a non-issue as all menus are password protected.

After knowing the IPs and Ports of projectors I moved to the second part of the Exploit witch was interacting directly with the projector.



- a. After accessing the projectors web interface a index page was shown (Figure 2)
 - i. All sub menus were protected by a password (Figure 3)
 - ii. After a short site scan it was discovered there was no menu accessible without credentials
- b. Once the login screen was discovered finding credentials became the next option
 - A quick google search showed the default credentials wich worked
 - ii. The credentials where Username: EPSONWEB Password: admin

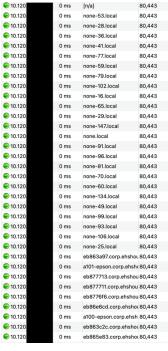


Figure 1

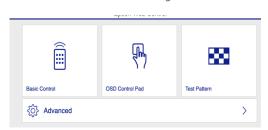


Figure 2

http://10.12	0.16.153
	ction to this site is not private
Jsername	

The Console fetch for requesting a power state change is as follows (This allows the projector to be turned off without Credentials):

```
fetch("http://(IP)/cgi-bin/directsend?KEY=3B&_=1675355473601", {
    "headers": {
        "accept": "text/plain, */*; q=0.01",
        "accept-language": "en-US,en;q=0.9",
        "x-requested-with": "XMLHttpRequest"
    },
    "referrer": "http://(IP)/cgi-bin/Remote/Basic_Control",
    "referrerPolicy": "strict-origin-when-cross-origin",
    "body": null,
    "method": "GET",
    "mode": "cors",
    "credentials": "omit"
});
```

With the ability to control the projector without credentials Changing the password would not be an option to secure the Projectors. Putting projectors on a separate VLAN with a network rule allowing verified mac addresses to reach the VLAN is an option to secure the projector. Another option is to do a direct connection via ethernet, and a static IP assigned to the projector. Air gapping the projector is another option if its network capabilities are not required.