VULNERABILITY REPORT





MODIFICATIONS HISTORY

Version	Date	Author	Description
1.0	05/17/2021	S Bhavya Sree	Initial Version



TABLE OF CONTENTS

1.	Gene	eral Information	. 4
1	1	Scope	4
1	2	Organisation	4
2.	Exec	utive Summary	5
3.	Tech	nical Details	. 6
3	.1	title	10
4.	Vuln	erabilities summary	. 6



GENERAL INFORMATION

SCOPE

VIT-AP University has mandated us to perform security tests on the following scope:

Software Security

ORGANISATION

The testing activities were performed between 05/17/2021 and 05/31/2021.



EXECUTIVE SUMMARY



VULNERABILITIES SUMMARY

Following vulnerabilities have been discovered:

Risk	ID	Vulnerability	Affected Scope
High	IDX-003	XSS	
High	IDX-001	Buffer Overflow	
Medium	VULN-002	Denial of Service	



TECHNICAL DETAILS

SHELL CODE INJECTION

CVSS SEVERITY	Hię	gh	CVSSv3 Score	8.2		
CVSSv3	Attack Vector :	Network	Scope :	Changed		
CRITERIAS	Attack Complexity :	High	Confidentiality :	High		
	Required Privileges :	None	Integrity:	Low		
	User Interaction :	Required	Availability :	High		
AFFECTED SCOPE						
DESCRIPTION	Summary: Stored XSS can be submitted on reports, and anyone who will check the report the XSS will trigger. Description: Stored XSS, also known as persistent XSS, is the more damaging than non-persistent XSS. It occurs when a malicious script is injected directly into a vulnerable web application.					
OBSERVATION	I wanted test on this site https://app.mopub.com/reports/custom/ Now Click New network report. enter payload: "> <imp onerror="alert(document.domain)" src="x"> in the Click Run and save then XSS will trigger. Demonstration of the vulnerability: PoC: xssed.webm (F412243) Tested on Firefox and chrome.</imp>					
TEST DETAILS	1					
REMEDIATION	The attacker can steal data from whoever checks the report.					
REFERENCES						



BUFFER OVERFLOW

CVSS SEVERITY	Hi	gh	CVSSv3 Score		7.6	
CVSSv3	Attack Vector :	Local	Scope :	Cha	nged	
CRITERIAS	Attack Complexity :	High	Confidentiality:	Higl	'n	
	Required Privileges :	None	Integrity :	Low	,	
	User Interaction :	Required	Availability:	Higl	n	
AFFECTED SCOPE						
DESCRIPTION	A buffer overflow, or buffer overrun, is an anomaly where a program, while writing data to a buffer, overruns the buffer's boundary and overwrites adjacent memory locations. It exists when a program attempts to put more data in a buffer than it can hold or when a program attempts to put data in a memory area past a buffer. In this case, a buffer is a sequential section of memory allocated to contain anything from a character string to an array of integers. Writing outside the bounds of a block of allocated memory can corrupt data, crash the program, or cause the execution of malicious code.					
OBSERVATION	We have observed that this buffer overflow can potentially crash an application and unknowingly allows command injection attacks.					

TEST DETAILS

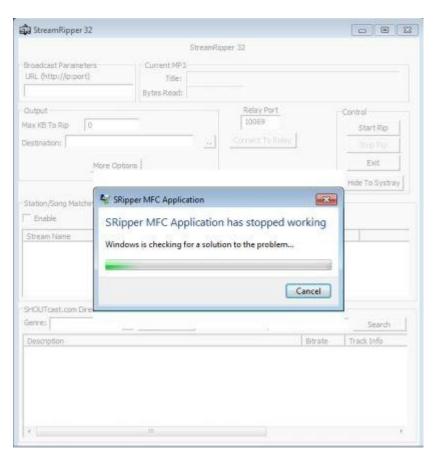






Image 1 – doc.JPG				
REMEDIATION	Address space randomization (ASLR) Data execution prevention (DEP) Structured exception handler overwrite protection (SEHOP)			
References				



DENIAL OF SERVICE

CVSS SEVERITY Med		ium	CVSSv3 Score		5.5		
CVSSv3	Attack Vector :	Local	Scope :	Un	changed		
CRITERIAS	Attack Complexity :	Low	Confidentiality :	No	ne		
	Required Privileges :	None	Integrity:	No	ne		
	User Interaction :	Required	Availability :	Hig	h		
AFFECTED SCOPE							
DESCRIPTION	The Denial of Service (DoS) attack is focused on making an software unavailable for the purpose it was designed. If a service receives a very large number of requests, it may cease to be available to legitimate users. In the same way, a service may stop if a programming vulnerability is exploited, or the way the service handles resources it uses. I						
OBSERVATION		the software crashes im This could impact the av		f larg	e string input due to Buffer		
TEST DETAILS							
	🐫 Frigate	3.exe	×	9			
	Frigate	3.exe is not respondir	ng				
If you close the program, you might lose information.							
→ Close the program							
→ Wait for the program to respond							
	Image 2 – buff.JPG						
REMEDIATION	 Input Sanitization Addressing Buffer Ov 	erflow					
REFERENCES							



