Sec Repo

# VULNERABILITY REPORT

FRIDAY, JUNE 11, 2021





## **MODIFICATIONS HISTORY**

Version	Date	Author	Description
1.0	06/11/2021	Balivada Pratyush	Initial Version



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## **GENERAL INFORMATION**

#### **S**COPE

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

- The following audit report comprises of the reported vulnerabilities in the following applications:
- 1)StreamRipper32
- 2)Frigate

#### **O**RGANISATION

The testing activities were performed between 04/03/2021 and 04/28/2021.



# **EXECUTIVE SUMMARY**



# **V**ULNERABILITIES SUMMARY

Following vulnerabilities have been discovered:

Risk	ID	Vulnerability	Affected Scope	
High	IDX-001	Shell Code Injection	Frigate "FIND COMPUTER" input field is vulnerable and on payload execution it triggers Calculator and Control Panel.	
Medium	VULN-002	Buffer Overflow	Frigate and StreamRipper32 Both possess buffer overflow vulnerability where the application terminates due to overwriting of adjacent memory locations. Stream ripper 32 does not trigger the shell code while frigate does.	

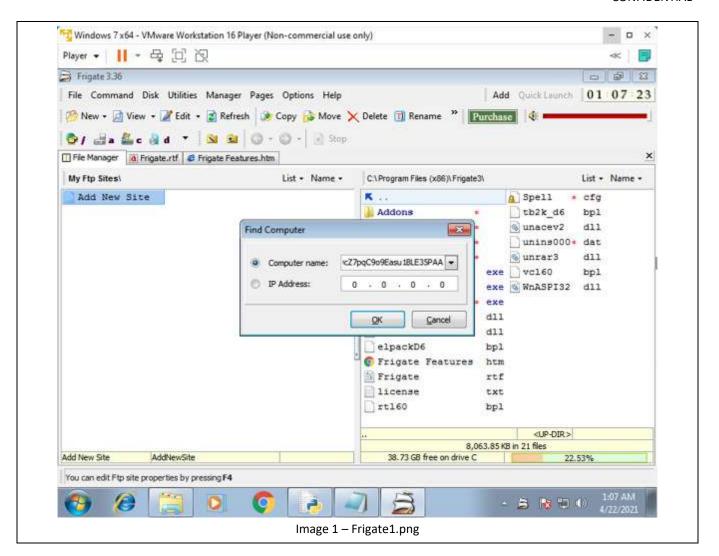


# **TECHNICAL DETAILS**

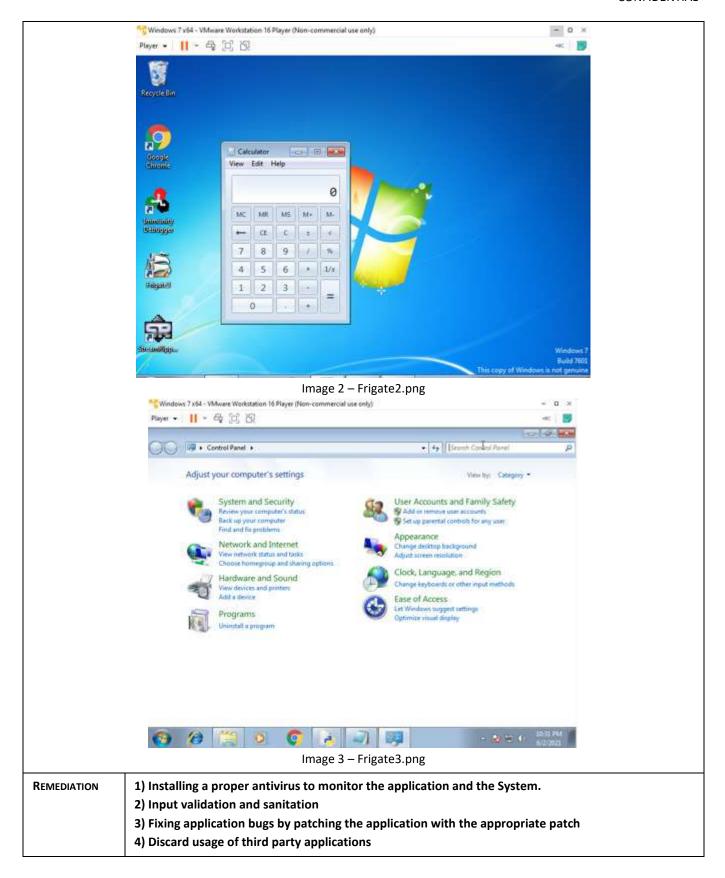
## SHELL CODE INJECTION

CVSS SEVERITY	High		CVSSv3 Score	8.0	
CVSSv3	Attack Vector :	Network	Scope :	Changed	
CRITERIAS	Attack Complexity :	High	Confidentiality :	High	
	Required Privileges :	Low	Integrity:	High	
	User Interaction :	Required	Availability :	High	
AFFECTED SCOPE	Frigate  "FIND COMPUTER" input field is vulnerable and on payload execution it triggers Calculator and Control Panel.				
DESCRIPTION	Command injection is an attack in which the goal is execution of arbitrary commands on the host operating system via a vulnerable application. Command injection attacks are possible when an application passes unsafe user supplied data (forms, cookies, HTTP headers etc.) to a system shell. In this attack, the attacker-supplied operating system commands are usually executed with the privileges of the vulnerable application. Command injection attacks are possible largely due to insufficient input validation.				
OBSERVATION	When a payload generated by a malicious code has the trigger to any of the host operating system applications and utility, shell code injection attack exists. Attacker tries to gain access to a host OS utility and tries to run it by executing the payload which triggers the particular utility on execution.				
TEST DETAILS					













DEFEDENCES			
VELEKENCES			

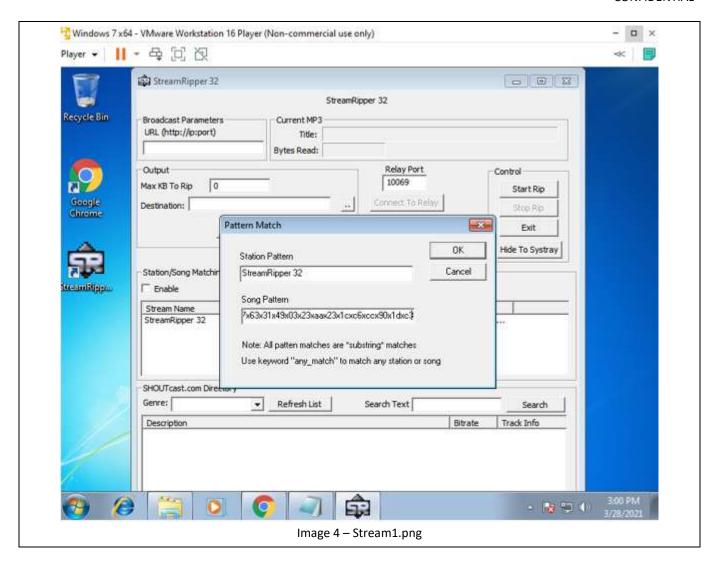


#### **BUFFER OVERFLOW**

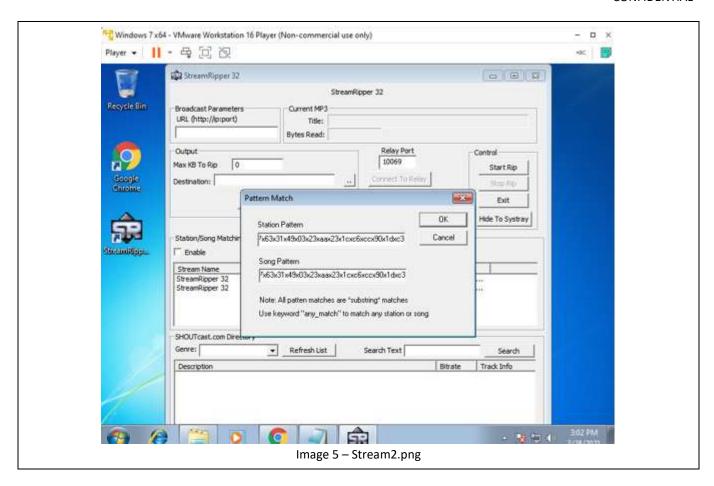
CVSS SEVERITY	Medium		CVSSv3 Score	5.4
CVSSv3	Attack Vector :	Physical	Scope :	Unchanged
CRITERIAS	Attack Complexity :	Low	Confidentiality :	Low
	Required Privileges :	None	Integrity :	Low
	User Interaction :	Required	Availability :	High
AFFECTED SCOPE	Frigate and StreamRipper32  Both possess buffer overflow vulnerability where the application terminates due to overwriting of adjacent memory locations.  Stream ripper 32 does not trigger the shell code while frigate does.			
DESCRIPTION	A buffer overflow condition 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	When attacker tries to exploit any of the vulnerable input fields in an application by injecting a payload, the allocated adjacent memory portions are overwritten causing it to grant access to the attacker. Attacker can have access control to the system if buffer overflow exists. It happens due to improper input validation and sanitation.			
TEST DETAILS	TEST DETAILS			



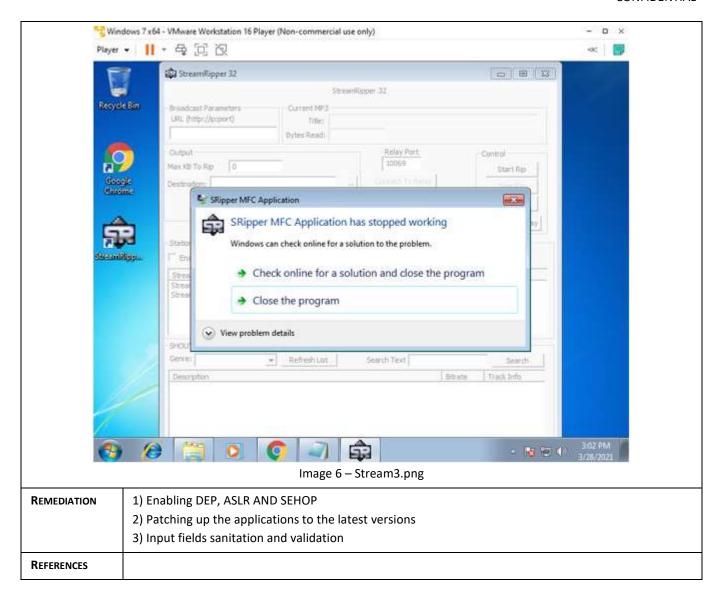














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