

vul_files_12 Scan Report

Project Name	vul_files_12
Scan Start	Monday, January 6, 2025 7:49:35 PM
Preset	Checkmarx Default
Scan Time	02h:35m:57s
Lines Of Code Scanned	299493
Files Scanned	226
Report Creation Time	Monday, January 6, 2025 10:50:49 PM
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14
Team	CxServer
Checkmarx Version	8.7.0
Scan Type	Full
Source Origin	LocalPath
Density	5/1000 (Vulnerabilities/LOC)
Visibility	Public

Filter Settings

Severity

Included: High, Medium, Low, Information

Excluded: None

Result State

Included: Confirmed, Not Exploitable, To Verify, Urgent, Proposed Not Exploitable

Excluded: None

Assigned to

Included: All

Categories

Included:

Uncategorized All

Custom All

PCI DSS v3.2 All

OWASP Top 10 2013 All

FISMA 2014 All

NIST SP 800-53 All

OWASP Top 10 2017 All

OWASP Mobile Top 10
2016 All

Excluded:

Uncategorized None

Custom None

PCI DSS v3.2 None

OWASP Top 10 2013 None

FISMA 2014 None

NIST SP 800-53	None
OWASP Top 10 2017	None
OWASP Mobile Top 10 2016	None

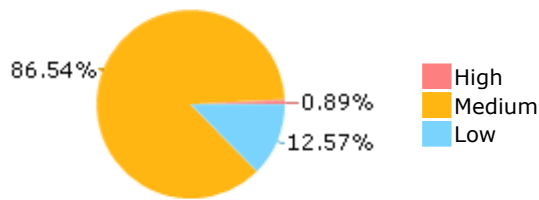
Results Limit

Results limit per query was set to 50

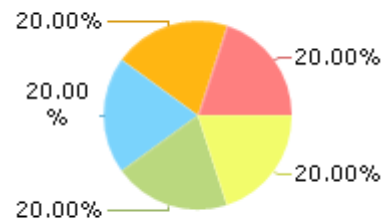
Selected Queries

Selected queries are listed in [Result Summary](#)

Result Summary



Most Vulnerable Files



freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c

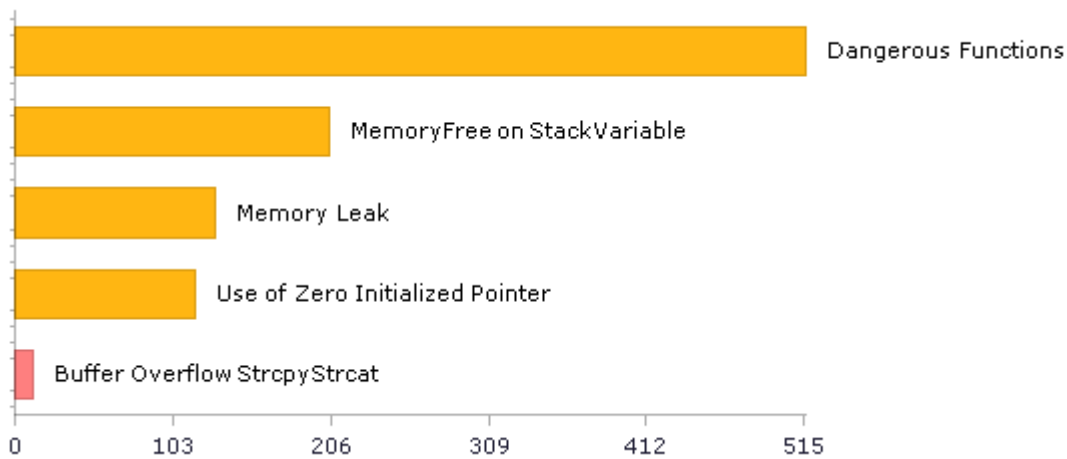
freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c

freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c

freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c

Top 5 Vulnerabilities



Scan Summary - OWASP Top 10 2017

Further details and elaboration about vulnerabilities and risks can be found at: [OWASP Top 10 2017](#)

Category	Threat Agent	Exploitability	Weakness Prevalence	Weakness Detectability	Technical Impact	Business Impact	Issues Found	Best Fix Locations
A1-Injection	App. Specific	EASY	COMMON	EASY	SEVERE	App. Specific	127	112
A2-Broken Authentication	App. Specific	EASY	COMMON	AVERAGE	SEVERE	App. Specific	6	6
A3-Sensitive Data Exposure	App. Specific	AVERAGE	WIDESPREAD	AVERAGE	SEVERE	App. Specific	16	16
A4-XML External Entities (XXE)	App. Specific	AVERAGE	COMMON	EASY	SEVERE	App. Specific	0	0
A5-Broken Access Control*	App. Specific	AVERAGE	COMMON	AVERAGE	SEVERE	App. Specific	0	0
A6-Security Misconfiguration	App. Specific	EASY	WIDESPREAD	EASY	MODERATE	App. Specific	0	0
A7-Cross-Site Scripting (XSS)	App. Specific	EASY	WIDESPREAD	EASY	MODERATE	App. Specific	0	0
A8-Insecure Deserialization	App. Specific	DIFFICULT	COMMON	AVERAGE	SEVERE	App. Specific	0	0
A9-Using Components with Known Vulnerabilities*	App. Specific	AVERAGE	WIDESPREAD	AVERAGE	MODERATE	App. Specific	516	516
A10-Insufficient Logging & Monitoring	App. Specific	AVERAGE	WIDESPREAD	DIFFICULT	MODERATE	App. Specific	0	0

* Project scan results do not include all relevant queries. Presets and/or Filters should be changed to include all relevant standard queries.

Scan Summary - OWASP Top 10 2013

Further details and elaboration about vulnerabilities and risks can be found at: [OWASP Top 10 2013](#)

Category	Threat Agent	Attack Vectors	Weakness Prevalence	Weakness Detectability	Technical Impact	Business Impact	Issues Found	Best Fix Locations
A1-Injection	EXTERNAL, INTERNAL, ADMIN USERS	EASY	COMMON	AVERAGE	SEVERE	ALL DATA	0	0
A2-Broken Authentication and Session Management	EXTERNAL, INTERNAL USERS	AVERAGE	WIDESPREAD	AVERAGE	SEVERE	AFFECTED DATA AND FUNCTIONS	0	0
A3-Cross-Site Scripting (XSS)	EXTERNAL, INTERNAL, ADMIN USERS	AVERAGE	VERY WIDESPREAD	EASY	MODERATE	AFFECTED DATA AND SYSTEM	0	0
A4-Insecure Direct Object References	SYSTEM USERS	EASY	COMMON	EASY	MODERATE	EXPOSED DATA	0	0
A5-Security Misconfiguration	EXTERNAL, INTERNAL, ADMIN USERS	EASY	COMMON	EASY	MODERATE	ALL DATA AND SYSTEM	0	0
A6-Sensitive Data Exposure	EXTERNAL, INTERNAL, ADMIN USERS, USERS BROWSERS	DIFFICULT	UNCOMMON	AVERAGE	SEVERE	EXPOSED DATA	16	16
A7-Missing Function Level Access Control*	EXTERNAL, INTERNAL USERS	EASY	COMMON	AVERAGE	MODERATE	EXPOSED DATA AND FUNCTIONS	0	0
A8-Cross-Site Request Forgery (CSRF)	USERS BROWSERS	AVERAGE	COMMON	EASY	MODERATE	AFFECTED DATA AND FUNCTIONS	0	0
A9-Using Components with Known Vulnerabilities*	EXTERNAL USERS, AUTOMATED TOOLS	AVERAGE	WIDESPREAD	DIFFICULT	MODERATE	AFFECTED DATA AND FUNCTIONS	516	516
A10-Unvalidated Redirects and Forwards	USERS BROWSERS	AVERAGE	WIDESPREAD	DIFFICULT	MODERATE	AFFECTED DATA AND FUNCTIONS	0	0

* Project scan results do not include all relevant queries. Presets and/or Filters should be changed to include all relevant standard queries.

Scan Summary - PCI DSS v3.2

Category	Issues Found	Best Fix Locations
PCI DSS (3.2) - 6.5.1 - Injection flaws - particularly SQL injection	0	0
PCI DSS (3.2) - 6.5.2 - Buffer overflows	109	109
PCI DSS (3.2) - 6.5.3 - Insecure cryptographic storage	0	0
PCI DSS (3.2) - 6.5.4 - Insecure communications	0	0
PCI DSS (3.2) - 6.5.5 - Improper error handling*	0	0
PCI DSS (3.2) - 6.5.7 - Cross-site scripting (XSS)	0	0
PCI DSS (3.2) - 6.5.8 - Improper access control	0	0
PCI DSS (3.2) - 6.5.9 - Cross-site request forgery	0	0
PCI DSS (3.2) - 6.5.10 - Broken authentication and session management	0	0

* Project scan results do not include all relevant queries. Presets and/or Filters should be changed to include all relevant standard queries.

Scan Summary - FISMA 2014

Category	Description	Issues Found	Best Fix Locations
Access Control	Organizations must limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems) and to the types of transactions and functions that authorized users are permitted to exercise.	6	6
Audit And Accountability*	Organizations must: (i) create, protect, and retain information system audit records to the extent needed to enable the monitoring, analysis, investigation, and reporting of unlawful, unauthorized, or inappropriate information system activity; and (ii) ensure that the actions of individual information system users can be uniquely traced to those users so they can be held accountable for their actions.	0	0
Configuration Management	Organizations must: (i) establish and maintain baseline configurations and inventories of organizational information systems (including hardware, software, firmware, and documentation) throughout the respective system development life cycles; and (ii) establish and enforce security configuration settings for information technology products employed in organizational information systems.	0	0
Identification And Authentication*	Organizations must identify information system users, processes acting on behalf of users, or devices and authenticate (or verify) the identities of those users, processes, or devices, as a prerequisite to allowing access to organizational information systems.	5	5
Media Protection	Organizations must: (i) protect information system media, both paper and digital; (ii) limit access to information on information system media to authorized users; and (iii) sanitize or destroy information system media before disposal or release for reuse.	36	31
System And Communications Protection	Organizations must: (i) monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information systems; and (ii) employ architectural designs, software development techniques, and systems engineering principles that promote effective information security within organizational information systems.	0	0
System And Information Integrity	Organizations must: (i) identify, report, and correct information and information system flaws in a timely manner; (ii) provide protection from malicious code at appropriate locations within organizational information systems; and (iii) monitor information system security alerts and advisories and take appropriate actions in response.	3	3

* Project scan results do not include all relevant queries. Presets and/or Filters should be changed to include all relevant standard queries.

Scan Summary - NIST SP 800-53

Category	Issues Found	Best Fix Locations
AC-12 Session Termination (P2)	0	0
AC-3 Access Enforcement (P1)	6	6
AC-4 Information Flow Enforcement (P1)	0	0
AC-6 Least Privilege (P1)	0	0
AU-9 Protection of Audit Information (P1)	0	0
CM-6 Configuration Settings (P2)	0	0
IA-5 Authenticator Management (P1)	0	0
IA-6 Authenticator Feedback (P2)	0	0
IA-8 Identification and Authentication (Non-Organizational Users) (P1)	0	0
SC-12 Cryptographic Key Establishment and Management (P1)	0	0
SC-13 Cryptographic Protection (P1)	20	15
SC-17 Public Key Infrastructure Certificates (P1)	0	0
SC-18 Mobile Code (P2)	0	0
SC-23 Session Authenticity (P1)*	0	0
SC-28 Protection of Information at Rest (P1)	5	5
SC-4 Information in Shared Resources (P1)	16	16
SC-5 Denial of Service Protection (P1)*	280	215
SC-8 Transmission Confidentiality and Integrity (P1)	0	0
SI-10 Information Input Validation (P1)*	65	65
SI-11 Error Handling (P2)*	77	77
SI-15 Information Output Filtering (P0)	0	0
SI-16 Memory Protection (P1)	0	0

* Project scan results do not include all relevant queries. Presets and/or Filters should be changed to include all relevant standard queries.

Scan Summary - OWASP Mobile Top 10 2016

Category	Description	Issues Found	Best Fix Locations
M1-Improper Platform Usage	This category covers misuse of a platform feature or failure to use platform security controls. It might include Android intents, platform permissions, misuse of TouchID, the Keychain, or some other security control that is part of the mobile operating system. There are several ways that mobile apps can experience this risk.	0	0
M2-Insecure Data Storage	This category covers insecure data storage and unintended data leakage.	0	0
M3-Insecure Communication	This category covers poor handshaking, incorrect SSL versions, weak negotiation, cleartext communication of sensitive assets, etc.	0	0
M4-Insecure Authentication	This category captures notions of authenticating the end user or bad session management. This can include: -Failing to identify the user at all when that should be required -Failure to maintain the user's identity when it is required -Weaknesses in session management	0	0
M5-Insufficient Cryptography	The code applies cryptography to a sensitive information asset. However, the cryptography is insufficient in some way. Note that anything and everything related to TLS or SSL goes in M3. Also, if the app fails to use cryptography at all when it should, that probably belongs in M2. This category is for issues where cryptography was attempted, but it wasn't done correctly.	0	0
M6-Insecure Authorization	This is a category to capture any failures in authorization (e.g., authorization decisions in the client side, forced browsing, etc.). It is distinct from authentication issues (e.g., device enrolment, user identification, etc.). If the app does not authenticate users at all in a situation where it should (e.g., granting anonymous access to some resource or service when authenticated and authorized access is required), then that is an authentication failure not an authorization failure.	0	0
M7-Client Code Quality	This category is the catch-all for code-level implementation problems in the mobile client. That's distinct from server-side coding mistakes. This would capture things like buffer overflows, format string vulnerabilities, and various other code-level mistakes where the solution is to rewrite some code that's running on the mobile device.	0	0
M8-Code Tampering	This category covers binary patching, local resource modification, method hooking, method swizzling, and dynamic memory modification. Once the application is delivered to the mobile device, the code and data resources are resident there. An attacker can either directly modify the code, change the contents of memory dynamically, change or replace the system APIs that the application uses, or	0	0

	modify the application's data and resources. This can provide the attacker a direct method of subverting the intended use of the software for personal or monetary gain.		
M9-Reverse Engineering	This category includes analysis of the final core binary to determine its source code, libraries, algorithms, and other assets. Software such as IDA Pro, Hopper, otool, and other binary inspection tools give the attacker insight into the inner workings of the application. This may be used to exploit other nascent vulnerabilities in the application, as well as revealing information about back end servers, cryptographic constants and ciphers, and intellectual property.	0	0
M10-Extraneous Functionality	Often, developers include hidden backdoor functionality or other internal development security controls that are not intended to be released into a production environment. For example, a developer may accidentally include a password as a comment in a hybrid app. Another example includes disabling of 2-factor authentication during testing.	0	0

Scan Summary - Custom

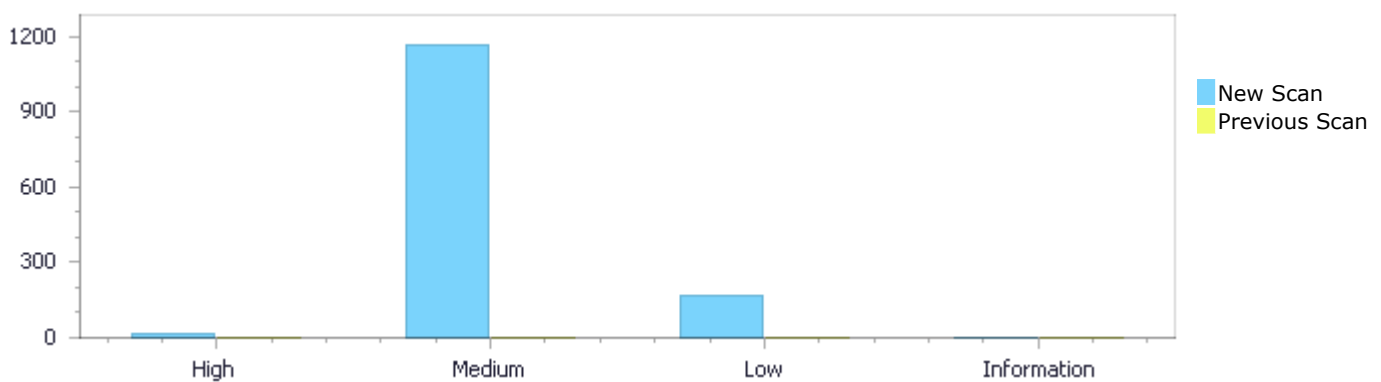
Category	Issues Found	Best Fix Locations
Must audit	0	0
Check	0	0
Optional	0	0

Results Distribution By Status

First scan of the project

	High	Medium	Low	Information	Total
New Issues	12	1,170	170	0	1,352
Recurrent Issues	0	0	0	0	0
Total	12	1,170	170	0	1,352

Fixed Issues	0	0	0	0	0
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Results Distribution By State

	High	Medium	Low	Information	Total
Confirmed	0	0	0	0	0
Not Exploitable	0	0	0	0	0
To Verify	12	1,170	170	0	1,352
Urgent	0	0	0	0	0
Proposed Not Exploitable	0	0	0	0	0
Total	12	1,170	170	0	1,352

Result Summary

Vulnerability Type	Occurrences	Severity
Buffer Overflow StrcpyStrcat	12	High
Dangerous Functions	516	Medium
MemoryFree on StackVariable	205	Medium
Memory Leak	130	Medium
Use of Zero Initialized Pointer	117	Medium

Buffer Overflow boundcpy WrongSizeParam	82	Medium
Wrong Size t Allocation	66	Medium
Use of a One Way Hash without a Salt	20	Medium
Heap Inspection	16	Medium
Char Overflow	12	Medium
Divide By Zero	3	Medium
Integer Overflow	3	Medium
Unchecked Return Value	77	Low
Unchecked Array Index	38	Low
NULL Pointer Dereference	33	Low
Use of Sizeof On a Pointer Type	11	Low
Incorrect Permission Assignment For Critical Resources	6	Low
Information Exposure Through Comments	5	Low

10 Most Vulnerable Files

High and Medium Vulnerabilities

File Name	Issues Found
freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	53
freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	53
freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c	53
freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	53
freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	53
FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	40
FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	40
FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	40
FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	32
FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp	32

Scan Results Details

Buffer Overflow StrcpyStrcat

Query Path:

CPP\Cx\CPP Buffer Overflow\Buffer Overflow StrcpyStrcat Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows
NIST SP 800-53: SI-10 Information Input Validation (P1)
OWASP Top 10 2017: A1-Injection

Description

Buffer Overflow StrcpyStrcat\Path 1:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1
Status	New

The size of the buffer used by `ntlm_current_time` in `timestamp`, at line 186 of `FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ntlm_current_time` passes to `timestamp`, at line 186 of `FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	186	193
Object	timestamp	timestamp

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Method `void ntlm_current_time(BYTE* timestamp)`

```
....  
186. void ntlm_current_time(BYTE* timestamp)  
....  
193. CopyMemory(timestamp, &(time64.QuadPart), 8);
```

Buffer Overflow StrcpyStrcat\Path 2:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=2
Status	New

The size of the buffer used by `ntlm_generate_signing_key` in `exported_session_key`, at line 600 of `FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ntlm_generate_signing_key` passes to

exported_session_key, at line 600 of FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	600	612
Object	exported_session_key	exported_session_key

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method static int ntlm_generate_signing_key(BYTE* exported_session_key, PSecBuffer sign_magic,

```
....
600. static int ntlm_generate_signing_key(BYTE* exported_session_key,
    PSecBuffer sign_magic,
    ....
612. CopyMemory(value, exported_session_key,
    WINPR_MD5_DIGEST_LENGTH);
```

Buffer Overflow StrcpyStrcat\Path 3:

Severity High

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=3>

Status New

The size of the buffer used by ntlm_generate_sealing_key in exported_session_key, at line 661 of FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that ntlm_generate_sealing_key passes to exported_session_key, at line 661 of FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	661	672
Object	exported_session_key	exported_session_key

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method static int ntlm_generate_sealing_key(BYTE* exported_session_key, PSecBuffer seal_magic,

```
....
661. static int ntlm_generate_sealing_key(BYTE* exported_session_key,
    PSecBuffer seal_magic,
    ....
672. CopyMemory(p, exported_session_key,
    WINPR_MD5_DIGEST_LENGTH);
```

Buffer Overflow StrcpyStrcat\Path 4:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=4
Status	New

The size of the buffer used by `ntlm_current_time` in `timestamp`, at line 186 of `FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ntlm_current_time` passes to `timestamp`, at line 186 of `FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c
Line	186	193
Object	timestamp	timestamp

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c
Method void ntlm_current_time(BYTE* timestamp)

```
....  
186. void ntlm_current_time(BYTE* timestamp)  
....  
193.     CopyMemory(timestamp, &(time64.QuadPart), 8);
```

Buffer Overflow StrcpyStrcat\Path 5:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=5
Status	New

The size of the buffer used by `ntlm_generate_signing_key` in `exported_session_key`, at line 600 of `FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ntlm_generate_signing_key` passes to `exported_session_key`, at line 600 of `FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c
Line	600	612
Object	exported_session_key	exported_session_key

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c

Method static int ntlm_generate_signing_key(BYTE* exported_session_key, PSecBuffer sign_magic,

```
....
600. static int ntlm_generate_signing_key(BYTE* exported_session_key,
PSecBuffer sign_magic,
....
612. CopyMemory(value, exported_session_key,
WINPR_MD5_DIGEST_LENGTH);
```

Buffer Overflow StrcpyStrcat\Path 6:

Severity High
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=6>
Status New

The size of the buffer used by ntlm_generate_sealing_key in exported_session_key, at line 661 of FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that ntlm_generate_sealing_key passes to exported_session_key, at line 661 of FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c
Line	661	672
Object	exported_session_key	exported_session_key

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c
Method static int ntlm_generate_sealing_key(BYTE* exported_session_key, PSecBuffer seal_magic,

```
....
661. static int ntlm_generate_sealing_key(BYTE* exported_session_key,
PSecBuffer seal_magic,
....
672. CopyMemory(p, exported_session_key,
WINPR_MD5_DIGEST_LENGTH);
```

Buffer Overflow StrcpyStrcat\Path 7:

Severity High
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=7>
Status New

The size of the buffer used by ntlm_current_time in timestamp, at line 186 of FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that ntlm_current_time passes to timestamp, at line 186 of FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c
Line	186	193
Object	timestamp	timestamp

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c
Method void ntlm_current_time(BYTE* timestamp)

```
....  
186. void ntlm_current_time(BYTE* timestamp)  
....  
193. CopyMemory(timestamp, &(time64.QuadPart), 8);
```

Buffer Overflow StrcpyStrcat\Path 8:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=8
Status	New

The size of the buffer used by `ntlm_generate_signing_key` in `exported_session_key`, at line 600 of `FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ntlm_generate_signing_key` passes to `exported_session_key`, at line 600 of `FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c
Line	600	612
Object	exported_session_key	exported_session_key

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c
Method static int ntlm_generate_signing_key(BYTE* exported_session_key, PSecBuffer sign_magic,

```
....  
600. static int ntlm_generate_signing_key(BYTE* exported_session_key,  
    PSecBuffer sign_magic,  
....  
612. CopyMemory(value, exported_session_key,  
    WINPR_MD5_DIGEST_LENGTH);
```

Buffer Overflow StrcpyStrcat\Path 9:

Severity	High
Result State	To Verify
Online Results	http://WIN-

PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=9

Status New

The size of the buffer used by `ntlm_generate_sealing_key` in `exported_session_key`, at line 661 of `FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ntlm_generate_sealing_key` passes to `exported_session_key`, at line 661 of `FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c
Line	661	672
Object	exported_session_key	exported_session_key

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2020-11086-FP.c

Method static int ntlm_generate_sealing_key(BYTE* exported_session_key, PSecBuffer seal_magic,

```
....
661. static int ntlm_generate_sealing_key(BYTE* exported_session_key,
    PSecBuffer seal_magic,
....
672.          CopyMemory(p, exported_session_key,
    WINPR_MD5_DIGEST_LENGTH);
```

Buffer Overflow StrcpyStrcat\Path 10:

Severity High

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=10>

Status New

The size of the buffer used by `ntlm_current_time` in `timestamp`, at line 186 of `FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ntlm_current_time` passes to `timestamp`, at line 186 of `FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c
Line	186	193
Object	timestamp	timestamp

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c

Method void ntlm_current_time(BYTE* timestamp)

```
....
186. void ntlm_current_time(BYTE* timestamp)
....
193. CopyMemory(timestamp, &(time64.QuadPart), 8);
```

Buffer Overflow StrcpyStrcat\Path 11:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=11
Status	New

The size of the buffer used by `ntlm_generate_signing_key` in `exported_session_key`, at line 600 of `FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ntlm_generate_signing_key` passes to `exported_session_key`, at line 600 of `FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c
Line	600	612
Object	exported_session_key	exported_session_key

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c
Method static int ntlm_generate_signing_key(BYTE* exported_session_key, PSecBuffer sign_magic,

```
....
600. static int ntlm_generate_signing_key(BYTE* exported_session_key,
PSecBuffer sign_magic,
....
612. CopyMemory(value, exported_session_key,
WINPR_MD5_DIGEST_LENGTH);
```

Buffer Overflow StrcpyStrcat\Path 12:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=12
Status	New

The size of the buffer used by `ntlm_generate_sealing_key` in `exported_session_key`, at line 661 of `FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ntlm_generate_sealing_key` passes to `exported_session_key`, at line 661 of `FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c`, to overwrite the target buffer.

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c
Line	661	672
Object	exported_session_key	exported_session_key

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2020-11086-FP.c
Method static int ntlm_generate_sealing_key(BYTE* exported_session_key, PSecBuffer seal_magic,

```
....
661. static int ntlm_generate_sealing_key(BYTE* exported_session_key,
PSecBuffer seal_magic,
....
672. CopyMemory(p, exported_session_key,
WINPR_MD5_DIGEST_LENGTH);
```

Dangerous Functions

Query Path:

CPP\Cx\CPP Medium Threat\Dangerous Functions Version:1

Categories

OWASP Top 10 2013: A9-Using Components with Known Vulnerabilities

OWASP Top 10 2017: A9-Using Components with Known Vulnerabilities

Description

Dangerous Functions\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=384
Status	New

The dangerous function, CopyMemory, was found in use at line 194 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-11097-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-11097-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-11097-TP.c
Line	211	211
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-11097-TP.c
Method static BOOL ntlm_av_pair_add(NTLM_AV_PAIR* pAvPairList, size_t cbAvPairList, NTLM_AV_ID AvId,

```
....
211.          CopyMemory(ntlm_av_pair_get_value_pointer(pAvPair),
Value, AvLen);
```

Dangerous Functions\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=385
Status	New

The dangerous function, CopyMemory, was found in use at line 1126 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	1167	1167
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Method SECURITY_STATUS ntlm_server_AuthenticateComplete(NTLM_CONTEXT* context)

```
....
1167.          CopyMemory(
```

Dangerous Functions\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=386
Status	New

The dangerous function, CopyMemory, was found in use at line 112 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	114	114
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method static void ntlm_populate_message_header(NTLM_MESSAGE_HEADER* header, UINT32 MessageType)

```
....
114.         CopyMemory(header->Signature, NTLM_SIGNATURE,
sizeof(NTLM_SIGNATURE));
```

Dangerous Functions\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=387>

Status New

The dangerous function, CopyMemory, was found in use at line 198 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	268	268
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method SECURITY_STATUS ntlm_read_NegotiateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....
268.         CopyMemory(context->NegotiateMessage.pvBuffer, buffer-
>pvBuffer, buffer->cbBuffer);
```

Dangerous Functions\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=388>

Status New

The dangerous function, CopyMemory, was found in use at line 285 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-	FreeRDP@@FreeRDP-2.0.0-CVE-2020-

	13396-TP.c	13396-TP.c
Line	348	348
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method SECURITY_STATUS ntlm_write_NegotiateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
348.          CopyMemory(context->NegotiateMessage.pvBuffer, buffer->  
>pvBuffer, buffer->cbBuffer);
```

Dangerous Functions\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=389>

Status New

The dangerous function, CopyMemory, was found in use at line 363 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	415	415
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method SECURITY_STATUS ntlm_read_ChallengeMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
415.          CopyMemory(context->ServerChallenge, message->  
>ServerChallenge, 8);
```

Dangerous Functions\Path 7:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=390>

Status New

The dangerous function, CopyMemory, was found in use at line 363 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	477	477
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method SECURITY_STATUS ntlm_read_ChallengeMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
477. CopyMemory(context->ChallengeTimestamp, ptr, 8);
```

Dangerous Functions\Path 8:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=391>

Status New

The dangerous function, CopyMemory, was found in use at line 363 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	489	489
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method SECURITY_STATUS ntlm_read_ChallengeMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
489. CopyMemory(context->ChallengeMessage.pvBuffer, StartOffset,  
length);
```

Dangerous Functions\Path 9:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=391>

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=392
Status	New

The dangerous function, CopyMemory, was found in use at line 581 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	604	604
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method SECURITY_STATUS ntlm_write_ChallengeMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
604.          CopyMemory(message->ServerChallenge, context->  
>ServerChallenge, 8); /* ServerChallenge */
```

Dangerous Functions\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=393
Status	New

The dangerous function, CopyMemory, was found in use at line 581 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	659	659
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method SECURITY_STATUS ntlm_write_ChallengeMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
659.          CopyMemory(context->ChallengeMessage.pvBuffer,  
Stream_Buffer(s), length);
```

Dangerous Functions\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=394
Status	New

The dangerous function, CopyMemory, was found in use at line 677 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	825	825
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Method SECURITY_STATUS ntlm_read_AuthenticateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
825. CopyMemory(context->ClientChallenge, context->  
>NTLMv2Response.Challenge.ClientChallenge, 8);
```

Dangerous Functions\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=395
Status	New

The dangerous function, CopyMemory, was found in use at line 677 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	849	849
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Method SECURITY_STATUS ntlm_read_AuthenticateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....
849.          CopyMemory(context->EncryptedRandomSessionKey,
message->EncryptedRandomSessionKey.Buffer,
```

Dangerous Functions\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=396
Status	New

The dangerous function, CopyMemory, was found in use at line 677 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	861	861
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Method SECURITY_STATUS ntlm_read_AuthenticateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....
861.          CopyMemory(context->AuthenticateMessage.pvBuffer,
Stream_Buffer(s), length);
```

Dangerous Functions\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=397
Status	New

The dangerous function, CopyMemory, was found in use at line 677 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	914	914
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method SECURITY_STATUS ntlm_read_AuthenticateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
914.                CopyMemory(credentials->identity.User, message-  
>UserName.Buffer, message->UserName.Len);
```

Dangerous Functions\Path 15:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=398>

Status New

The dangerous function, CopyMemory, was found in use at line 677 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	928	928
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c

Method SECURITY_STATUS ntlm_read_AuthenticateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
928.                CopyMemory(credentials->identity.Domain, message-  
>DomainName.Buffer,
```

Dangerous Functions\Path 16:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=399>

Status New

The dangerous function, CopyMemory, was found in use at line 946 in FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	1079	1079
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Method SECURITY_STATUS ntlm_write_AuthenticateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....
1079.          CopyMemory(context->AuthenticateMessage.pvBuffer,
Stream_Buffer(s), length);
```

Dangerous Functions\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=400
Status	New

The dangerous function, CopyMemory, was found in use at line 232 in FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	257	257
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static HRESULT STDMETHODCALLTYPE CliprdrStream_Read(IStream* This, void* pv, ULONG cb,

```
....
257.          CopyMemory(pv, clipboard->req_fdata, clipboard->req_fsize);
```

Dangerous Functions\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=401
Status	New

The dangerous function, CopyMemory, was found in use at line 2040 in FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2167	2167
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....  
2167. CopyMemory(buff, globmem, size);
```

Dangerous Functions\Path 19:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=402>

Status New

The dangerous function, CopyMemory, was found in use at line 2187 in FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2218	2218
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_response(ClipdrClientContext* context,

```
....  
2218. CopyMemory(data, formatDataResponse->requestedFormatData,  
formatDataResponse->dataLen);
```

Dangerous Functions\Path 20:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=403>

Status New

The dangerous function, CopyMemory, was found in use at line 2413 in FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2435	2435
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_file_contents_response(ClipdrClientContext* context,

```
....  
2435.         CopyMemory(clipboard->req_fdata, fileContentsResponse->requestedData,
```

Dangerous Functions\Path 21:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=404>

Status New

The dangerous function, CopyMemory, was found in use at line 176 in FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c
Line	211	211
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c

Method static BOOL nsc_rle_decompress_data(NSC_CONTEXT* context)

```
....  
211.         CopyMemory(context->priv->PlaneBuffers[i], rle,  
originalSize);
```

Dangerous Functions\Path 22:

Severity Medium

Result State To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=405
Status	New

The dangerous function, CopyMemory, was found in use at line 102 in FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	116	116
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Method static BOOL rdp_compute_client_auto_reconnect_cookie(rdpRdp* rdp)

```
....  
116.         CopyMemory(AutoReconnectRandom, serverCookie->arcRandomBits,  
16);
```

Dangerous Functions\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=406
Status	New

The dangerous function, CopyMemory, was found in use at line 102 in FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	120	120
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Method static BOOL rdp_compute_client_auto_reconnect_cookie(rdpRdp* rdp)

```
....  
120.         CopyMemory(ClientRandom, settings->ClientRandom,  
settings->ClientRandomLength);
```

Dangerous Functions\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=407
Status	New

The dangerous function, CopyMemory, was found in use at line 138 in FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	170	170
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Method static BOOL rdp_read_server_auto_reconnect_cookie(rdpRdp* rdp, wStream* s, logon_info_ex* info)

```
....  
170. CopyMemory(info->ArcRandomBits, p, 16);
```

Dangerous Functions\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=408
Status	New

The dangerous function, CopyMemory, was found in use at line 186 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	193	193
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Method void ntlm_current_time(BYTE* timestamp)

```
....
193.         CopyMemory(timestamp, &(time64.QuadPart), 8);
```

Dangerous Functions\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=409
Status	New

The dangerous function, CopyMemory, was found in use at line 201 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	204	204
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Method void ntlm_generate_timestamp(NTLM_CONTEXT* context)

```
....
204.         CopyMemory(context->Timestamp, context-
>ChallengeTimestamp, 8);
```

Dangerous Functions\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=410
Status	New

The dangerous function, CopyMemory, was found in use at line 377 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	397	397
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Method int ntlm_compute_lm_v2_response(NTLM_CONTEXT* context)

```
....  
397. CopyMemory(value, context->ServerChallenge, 8);
```

Dangerous Functions\Path 28:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=411>
Status New

The dangerous function, CopyMemory, was found in use at line 377 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	398	398
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Method int ntlm_compute_lm_v2_response(NTLM_CONTEXT* context)

```
....  
398. CopyMemory(&value[8], context->ClientChallenge, 8);
```

Dangerous Functions\Path 29:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=412>
Status New

The dangerous function, CopyMemory, was found in use at line 377 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	409	409
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method int ntlm_compute_lm_v2_response(NTLM_CONTEXT* context)

```
....  
409.          CopyMemory(&response[16], context->ClientChallenge, 8);
```

Dangerous Functions\Path 30:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=413>

Status New

The dangerous function, CopyMemory, was found in use at line 420 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	443	443
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method int ntlm_compute_ntlm_v2_response(NTLM_CONTEXT* context)

```
....  
443.          CopyMemory(&blob[8], context->Timestamp, 8);          /*  
Timestamp (8 bytes) */
```

Dangerous Functions\Path 31:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=414>

Status New

The dangerous function, CopyMemory, was found in use at line 420 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	444	444

Object	CopyMemory	CopyMemory
--------	------------	------------

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method int ntlm_compute_ntlm_v2_response(NTLM_CONTEXT* context)

```
....
444.          CopyMemory(&blob[16], context->ClientChallenge, 8); /*
ClientChallenge (8 bytes) */
```

Dangerous Functions\Path 32:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=415>

Status New

The dangerous function, CopyMemory, was found in use at line 420 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	446	446
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method int ntlm_compute_ntlm_v2_response(NTLM_CONTEXT* context)

```
....
446.          CopyMemory(&blob[28], TargetInfo->pvBuffer, TargetInfo-
>cbBuffer);
```

Dangerous Functions\Path 33:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=416>

Status New

The dangerous function, CopyMemory, was found in use at line 420 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-	FreeRDP@@FreeRDP-2.2.0-CVE-2020-

	11086-FP.c	11086-FP.c
Line	458	458
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method int ntlm_compute_ntlm_v2_response(NTLM_CONTEXT* context)

```
....  
458.          CopyMemory(blob, context->ServerChallenge, 8);
```

Dangerous Functions\Path 34:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=417>

Status New

The dangerous function, CopyMemory, was found in use at line 420 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	459	459
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method int ntlm_compute_ntlm_v2_response(NTLM_CONTEXT* context)

```
....  
459.          CopyMemory(&blob[8], ntlm_v2_temp.pvBuffer,  
ntlm_v2_temp.cbBuffer);
```

Dangerous Functions\Path 35:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=418>

Status New

The dangerous function, CopyMemory, was found in use at line 420 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	470	470
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method int ntlm_compute_ntlm_v2_response(NTLM_CONTEXT* context)

```
....  
470.          CopyMemory(blob, context->NtProofString,  
WINPR_MD5_DIGEST_LENGTH);
```

Dangerous Functions\Path 36:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=419>

Status New

The dangerous function, CopyMemory, was found in use at line 420 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	471	471
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method int ntlm_compute_ntlm_v2_response(NTLM_CONTEXT* context)

```
....  
471.          CopyMemory(&blob[16], ntlm_v2_temp.pvBuffer,  
ntlm_v2_temp.cbBuffer);
```

Dangerous Functions\Path 37:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=420>

Status New

The dangerous function, CopyMemory, was found in use at line 531 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	534	534
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method void ntlm_generate_key_exchange_key(NTLM_CONTEXT* context)

```
....  
534.      CopyMemory(context->KeyExchangeKey, context->SessionBaseKey,  
16);
```

Dangerous Functions\Path 38:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=421>

Status New

The dangerous function, CopyMemory, was found in use at line 552 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	554	554
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method void ntlm_generate_exported_session_key(NTLM_CONTEXT* context)

```
....  
554.      CopyMemory(context->ExportedSessionKey, context->  
>RandomSessionKey, 16);
```

Dangerous Functions\Path 39:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14>

Status [&pathid=422](#)
New

The dangerous function, CopyMemory, was found in use at line 575 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	589	589
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method void ntlm_decrypt_random_session_key(NTLM_CONTEXT* context)

```
....  
589.          CopyMemory(context->RandomSessionKey, context->  
>KeyExchangeKey, 16);
```

Dangerous Functions\Path 40:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=423>

Status New

The dangerous function, CopyMemory, was found in use at line 600 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	612	612
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method static int ntlm_generate_signing_key(BYTE* exported_session_key, PSecBuffer sign_magic,

```
....  
612.          CopyMemory(value, exported_session_key,  
WINPR_MD5_DIGEST_LENGTH);
```

Dangerous Functions\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=424
Status	New

The dangerous function, CopyMemory, was found in use at line 600 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	613	613
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Method static int ntlm_generate_signing_key(BYTE* exported_session_key, PSecBuffer sign_magic,

```
....  
613.      CopyMemory(&value[WINPR_MD5_DIGEST_LENGTH], sign_magic->pvBuffer, sign_magic->cbBuffer);
```

Dangerous Functions\Path 42:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=425
Status	New

The dangerous function, CopyMemory, was found in use at line 661 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	672	672
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Method static int ntlm_generate_sealing_key(BYTE* exported_session_key, PSecBuffer seal_magic,

```
....
672.          CopyMemory(p, exported_session_key,
WINPR_MD5_DIGEST_LENGTH);
```

Dangerous Functions\Path 43:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=426
Status	New

The dangerous function, CopyMemory, was found in use at line 661 in FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	673	673
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Method static int ntlm_generate_sealing_key(BYTE* exported_session_key, PSecBuffer seal_magic,

```
....
673.          CopyMemory(&p[WINPR_MD5_DIGEST_LENGTH], seal_magic-
>pvBuffer, seal_magic->cbBuffer);
```

Dangerous Functions\Path 44:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=427
Status	New

The dangerous function, CopyMemory, was found in use at line 232 in FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	257	257
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method static HRESULT STDMETHODCALLTYPE CliprdrStream_Read(IStream* This, void* pv, ULONG cb,

```
.....  
257. CopyMemory(pv, clipboard->req_fdata, clipboard->  
>req_fsize);
```

Dangerous Functions\Path 45:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=428>

Status New

The dangerous function, CopyMemory, was found in use at line 2041 in FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2168	2168
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method wf_cliprdr_server_format_data_request(CliprdrClientContext* context,

```
.....  
2168. CopyMemory(buff, globmem, size);
```

Dangerous Functions\Path 46:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=429>

Status New

The dangerous function, CopyMemory, was found in use at line 2188 in FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Line	2219	2219
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_response(ClipdrClientContext* context,

```
....  
2219.         CopyMemory(data, formatDataResponse->requestedFormatData,  
formatDataResponse->dataLen);
```

Dangerous Functions\Path 47:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=430>

Status New

The dangerous function, CopyMemory, was found in use at line 2414 in FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2436	2436
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_file_contents_response(ClipdrClientContext* context,

```
....  
2436.         CopyMemory(clipboard->req_fdata, fileContentsResponse->requestedData,
```

Dangerous Functions\Path 48:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=431>

Status New

The dangerous function, CopyMemory, was found in use at line 176 in FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c
Line	211	211
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c

Method static BOOL nsc_rle_decompress_data(NSC_CONTEXT* context)

```
....  
211. CopyMemory(context->priv->PlaneBuffers[i], rle,  
originalSize);
```

Dangerous Functions\Path 49:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=432>

Status New

The dangerous function, CopyMemory, was found in use at line 150 in FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	164	164
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_compute_client_auto_reconnect_cookie(rdpRdp* rdp)

```
....  
164. CopyMemory(AutoReconnectRandom, serverCookie->arcRandomBits,  
16);
```

Dangerous Functions\Path 50:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=433>

Status New

The dangerous function, CopyMemory, was found in use at line 150 in FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	168	168
Object	CopyMemory	CopyMemory

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_compute_client_auto_reconnect_cookie(rdpRdp* rdp)

```
....  
168.             CopyMemory(ClientRandom, settings->ClientRandom,  
settings->ClientRandomLength);
```

MemoryFree on StackVariable

Query Path:

CPP\Cx\CPP Medium Threat\MemoryFree on StackVariable Version:0

[Description](#)

MemoryFree on StackVariable\Path 1:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=98>

Status New

Calling free() (line 2513) on a variable that was not dynamically allocated (line 2513) in file FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2545	2545
Object	clipboard	clipboard

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method BOOL wf_clipdr_uninit(wfContext* wfc, ClipdrClientContext* clipdr)

```
....  
2545.             free(clipboard);
```

MemoryFree on StackVariable\Path 2:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=99>

Status New

Calling free() (line 441) on a variable that was not dynamically allocated (line 441) in file FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c
Line	483	483
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
483.                                free(outStr);
```

MemoryFree on StackVariable\Path 3:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=100>

Status New

Calling free() (line 441) on a variable that was not dynamically allocated (line 441) in file FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c
Line	496	496
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
496.                                free(outStr);
```

MemoryFree on StackVariable\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=101>

Status New

Calling free() (line 441) on a variable that was not dynamically allocated (line 441) in file FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c
Line	528	528
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
528. free(outStr);
```

MemoryFree on StackVariable\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=102>

Status New

Calling free() (line 441) on a variable that was not dynamically allocated (line 441) in file FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c
Line	538	538
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
538. free(outStr);
```

MemoryFree on StackVariable\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14>

[&pathid=103](#)

Status New

Calling free() (line 441) on a variable that was not dynamically allocated (line 441) in file FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c
Line	483	483
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
483.                                free(outStr);
```

MemoryFree on StackVariable\Path 7:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=104>

Status New

Calling free() (line 441) on a variable that was not dynamically allocated (line 441) in file FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c
Line	496	496
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
496.                                free(outStr);
```

MemoryFree on StackVariable\Path 8:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=104>

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=105
Status	New

Calling free() (line 441) on a variable that was not dynamically allocated (line 441) in file FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c
Line	528	528
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
528.                                free(outStr);
```

MemoryFree on StackVariable\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=106
Status	New

Calling free() (line 441) on a variable that was not dynamically allocated (line 441) in file FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c
Line	538	538
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
538.                                free(outStr);
```

MemoryFree on StackVariable\Path 10:

Severity	Medium
Result State	To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=107
Status	New

Calling free() (line 138) on a variable that was not dynamically allocated (line 138) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	177	177
Object	base64	base64

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Method static BOOL rdp_read_server_auto_reconnect_cookie(rdpRdp* rdp, wStream* s, logon_info_ex* info)

```
....  
177.         free(base64);
```

MemoryFree on StackVariable\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=108
Status	New

Calling free() (line 414) on a variable that was not dynamically allocated (line 414) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	472	472
Object	clientAddress	clientAddress

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Method static BOOL rdp_write_extended_info_packet(rdpRdp* rdp, wStream* s)

```
....  
472.         free(clientAddress);
```

MemoryFree on StackVariable\Path 12:

Severity	Medium
Result State	To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=109
Status	New

Calling free() (line 414) on a variable that was not dynamically allocated (line 414) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	473	473
Object	clientDir	clientDir

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Method static BOOL rdp_write_extended_info_packet(rdpRdp* rdp, wStream* s)

```
....  
473.         free(clientDir);
```

MemoryFree on StackVariable\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=110
Status	New

Calling free() (line 721) on a variable that was not dynamically allocated (line 721) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	945	945
Object	domainW	domainW

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
945.         free(domainW);
```

MemoryFree on StackVariable\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=110

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=111
Status	New

Calling free() (line 721) on a variable that was not dynamically allocated (line 721) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	946	946
Object	userNameW	userNameW

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
.....  
946.         free(userNameW);
```

MemoryFree on StackVariable\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=112
Status	New

Calling free() (line 721) on a variable that was not dynamically allocated (line 721) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	947	947
Object	alternateShellW	alternateShellW

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
.....  
947.         free(alternateShellW);
```

MemoryFree on StackVariable\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14

[&pathid=113](#)

Status New

Calling free() (line 721) on a variable that was not dynamically allocated (line 721) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	948	948
Object	workingDirW	workingDirW

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
948.         free(workingDirW);
```

MemoryFree on StackVariable\Path 17:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=114>

Status New

Calling free() (line 721) on a variable that was not dynamically allocated (line 721) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	951	951
Object	passwordW	passwordW

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
951.         free(passwordW);
```

MemoryFree on StackVariable\Path 18:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=115>

Status New

Calling free() (line 1377) on a variable that was not dynamically allocated (line 1377) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	1397	1397
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v1(wStream* s, logon_info* info)

```
....  
1397.          free(wString);
```

MemoryFree on StackVariable\Path 19:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=116>

Status New

Calling free() (line 1377) on a variable that was not dynamically allocated (line 1377) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	1404	1404
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v1(wStream* s, logon_info* info)

```
....  
1404.          free(wString);
```

MemoryFree on StackVariable\Path 20:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=117>

Status New

Calling free() (line 1377) on a variable that was not dynamically allocated (line 1377) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	1416	1416
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v1(wStream* s, logon_info* info)

```
....  
1416.          free(wString);
```

MemoryFree on StackVariable\Path 21:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=118>

Status New

Calling free() (line 1377) on a variable that was not dynamically allocated (line 1377) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	1423	1423
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v1(wStream* s, logon_info* info)

```
....  
1423.          free(wString);
```

MemoryFree on StackVariable\Path 22:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=119>

Status New

Calling free() (line 1429) on a variable that was not dynamically allocated (line 1429) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	1457	1457
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v2(wStream* s, logon_info* info)

```
....  
1457.         free(wString);
```

MemoryFree on StackVariable\Path 23:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=120>

Status New

Calling free() (line 1429) on a variable that was not dynamically allocated (line 1429) in file FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	1465	1465
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v2(wStream* s, logon_info* info)

```
....  
1465.         free(wString);
```

MemoryFree on StackVariable\Path 24:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=121>

Status New

Calling free() (line 264) on a variable that was not dynamically allocated (line 264) in file FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	289	289
Object	PasswordHash	PasswordHash

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method static int ntlm_convert_password_hash(NTLM_CONTEXT* context, BYTE* hash)

```
....  
289.         free>PasswordHash);
```

MemoryFree on StackVariable\Path 25:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=122>

Status New

Calling free() (line 2514) on a variable that was not dynamically allocated (line 2514) in file FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2546	2546
Object	clipboard	clipboard

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method BOOL wf_clipdrdr_uninit(wfContext* wfc, ClipdrdrClientContext* clipdrdr)

```
....  
2546.         free(clipboard);
```

MemoryFree on StackVariable\Path 26:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=123>

Status New

Calling free() (line 445) on a variable that was not dynamically allocated (line 445) in file FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c
Line	487	487
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
487.                                free(outStr);
```

MemoryFree on StackVariable\Path 27:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=124>

Status New

Calling free() (line 445) on a variable that was not dynamically allocated (line 445) in file FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c
Line	500	500
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
500.                                free(outStr);
```

MemoryFree on StackVariable\Path 28:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=125>

Status New

Calling free() (line 445) on a variable that was not dynamically allocated (line 445) in file FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c
Line	532	532
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
532.                                free(outStr);
```

MemoryFree on StackVariable\Path 29:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=126>

Status New

Calling free() (line 445) on a variable that was not dynamically allocated (line 445) in file FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c
Line	542	542
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
542.                                free(outStr);
```

MemoryFree on StackVariable\Path 30:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=127>

Status New

Calling free() (line 445) on a variable that was not dynamically allocated (line 445) in file FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c
Line	487	487
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
487.                                free(outStr);
```

MemoryFree on StackVariable\Path 31:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=128>

Status New

Calling free() (line 445) on a variable that was not dynamically allocated (line 445) in file FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c
Line	500	500
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
500.                                free(outStr);
```

MemoryFree on StackVariable\Path 32:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14>

Status [&pathid=129](#)
New

Calling free() (line 445) on a variable that was not dynamically allocated (line 445) in file FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c
Line	532	532
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
532.                                free(outStr);
```

MemoryFree on StackVariable\Path 33:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=130>

Status New

Calling free() (line 445) on a variable that was not dynamically allocated (line 445) in file FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c
Line	542	542
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
542.                                free(outStr);
```

MemoryFree on StackVariable\Path 34:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=130>

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=131
Status	New

Calling free() (line 186) on a variable that was not dynamically allocated (line 186) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	225	225
Object	base64	base64

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Method static BOOL rdp_read_server_auto_reconnect_cookie(rdpRdp* rdp, wStream* s, logon_info_ex* info)

```
....  
225.          free(base64);
```

MemoryFree on StackVariable\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=132
Status	New

Calling free() (line 403) on a variable that was not dynamically allocated (line 403) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	461	461
Object	clientAddress	clientAddress

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Method static BOOL rdp_write_extended_info_packet(rdpRdp* rdp, wStream* s)

```
....  
461.          free(clientAddress);
```

MemoryFree on StackVariable\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=132

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=133
Status	New

Calling free() (line 403) on a variable that was not dynamically allocated (line 403) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	462	462
Object	clientDir	clientDir

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_extended_info_packet(rdpRdp* rdp, wStream* s)

```
....  
462.         free(clientDir);
```

MemoryFree on StackVariable\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=134
Status	New

Calling free() (line 609) on a variable that was not dynamically allocated (line 609) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	833	833
Object	domainW	domainW

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
833.         free(domainW);
```

MemoryFree on StackVariable\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14

Status [&pathid=135](#)
New

Calling free() (line 609) on a variable that was not dynamically allocated (line 609) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	834	834
Object	userNameW	userNameW

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
834.         free(userNameW);
```

MemoryFree on StackVariable\Path 39:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=136>

Status New

Calling free() (line 609) on a variable that was not dynamically allocated (line 609) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	835	835
Object	alternateShellW	alternateShellW

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
835.         free(alternateShellW);
```

MemoryFree on StackVariable\Path 40:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=137>

Status New

Calling free() (line 609) on a variable that was not dynamically allocated (line 609) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	836	836
Object	workingDirW	workingDirW

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
836.         free(workingDirW);
```

MemoryFree on StackVariable\Path 41:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=138>

Status New

Calling free() (line 609) on a variable that was not dynamically allocated (line 609) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	839	839
Object	passwordW	passwordW

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
839.         free(passwordW);
```

MemoryFree on StackVariable\Path 42:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=139>

Status New

Calling free() (line 1263) on a variable that was not dynamically allocated (line 1263) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	1283	1283
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v1(wStream* s, logon_info* info)

```
....  
1283.          free(wString);
```

MemoryFree on StackVariable\Path 43:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=140>

Status New

Calling free() (line 1263) on a variable that was not dynamically allocated (line 1263) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	1290	1290
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v1(wStream* s, logon_info* info)

```
....  
1290.          free(wString);
```

MemoryFree on StackVariable\Path 44:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=141>

Status New

Calling free() (line 1263) on a variable that was not dynamically allocated (line 1263) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	1302	1302
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v1(wStream* s, logon_info* info)

```
....  
1302.          free(wString);
```

MemoryFree on StackVariable\Path 45:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=142>

Status New

Calling free() (line 1263) on a variable that was not dynamically allocated (line 1263) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	1309	1309
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v1(wStream* s, logon_info* info)

```
....  
1309.          free(wString);
```

MemoryFree on StackVariable\Path 46:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=143>

Status New

Calling free() (line 1315) on a variable that was not dynamically allocated (line 1315) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	1343	1343
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v2(wStream* s, logon_info* info)

```
....  
1343.         free(wString);
```

MemoryFree on StackVariable\Path 47:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=144>

Status New

Calling free() (line 1315) on a variable that was not dynamically allocated (line 1315) in file FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	1351	1351
Object	wString	wString

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_logon_info_v2(wStream* s, logon_info* info)

```
....  
1351.         free(wString);
```

MemoryFree on StackVariable\Path 48:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=145>

Status New

Calling free() (line 264) on a variable that was not dynamically allocated (line 264) in file FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c
Line	289	289
Object	PasswordHash	PasswordHash

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c

Method static int ntlm_convert_password_hash(NTLM_CONTEXT* context, BYTE* hash)

```
....  
289.         free>PasswordHash);
```

MemoryFree on StackVariable\Path 49:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=146>

Status New

Calling free() (line 2514) on a variable that was not dynamically allocated (line 2514) in file FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	2546	2546
Object	clipboard	clipboard

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Method BOOL wf_cliprdr_uninit(wfContext* wfc, CliprdrClientContext* cliprdr)

```
....  
2546.         free(clipboard);
```

MemoryFree on StackVariable\Path 50:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=147>

Status New

Calling free() (line 445) on a variable that was not dynamically allocated (line 445) in file FreeRDP@@FreeRDP-2.3.0-CVE-2022-39347-TP.c may result with a crash.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2022-39347-TP.c
Line	487	487
Object	outStr	outStr

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2022-39347-TP.c

Method static UINT drive_process_irp_query_volume_information(DRIVE_DEVICE* drive, IRP* irp)

```
....  
487.                                free(outStr);
```

Memory Leak

Query Path:

CPP\Cx\CPP Medium Threat\Memory Leak Version:1

Categories

NIST SP 800-53: SC-5 Denial of Service Protection (P1)

Description

Memory Leak\Path 1:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=916>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
Line	661	661
Object	h264	h264

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c

Method H264_CONTEXT* h264_context_new(BOOL Compressor)

```
....  
661.          H264_CONTEXT* h264 = (H264_CONTEXT*) calloc(1,  
sizeof(H264_CONTEXT));
```

Memory Leak\Path 2:

Severity Medium

Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=917
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Line	671	671
Object	h264	h264

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Method H264_CONTEXT* h264_context_new(BOOL Compressor)

```
....  
671.          H264_CONTEXT* h264 = (H264_CONTEXT*) calloc(1,  
sizeof(H264_CONTEXT));
```

Memory Leak\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=918
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c
Line	671	671
Object	h264	h264

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c
Method H264_CONTEXT* h264_context_new(BOOL Compressor)

```
....  
671.          H264_CONTEXT* h264 = (H264_CONTEXT*) calloc(1,  
sizeof(H264_CONTEXT));
```

Memory Leak\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=919
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Line	709	709
Object	h264	h264

Code Snippet

File Name FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Method H264_CONTEXT* h264_context_new(BOOL Compressor)

```
....
709.          H264_CONTEXT* h264 = (H264_CONTEXT*) calloc(1,
sizeof(H264_CONTEXT));
```

Memory Leak\Path 5:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=920>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Line	906	906
Object	User	User

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Method SECURITY_STATUS ntlm_read_AuthenticateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....
906.          credentials->identity.User = (UINT16*) malloc(message-
>UserName.Len);
```

Memory Leak\Path 6:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=921>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-	FreeRDP@@FreeRDP-2.0.0-CVE-2020-

	13396-TP.c	13396-TP.c
Line	920	920
Object	Domain	Domain

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13396-TP.c
Method SECURITY_STATUS ntlm_read_AuthenticateMessage(NTLM_CONTEXT* context, PSecBuffer buffer)

```
....  
920.                credentials->identity.Domain =  
(UINT16*) malloc (message->DomainName.Len);
```

Memory Leak\Path 7:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=922>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c
Line	481	481
Object	strings	strings

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c
Method static void string_list_allocate(string_list* list, int allocate_count)

```
....  
481.                list->strings = calloc((size_t)allocate_count,  
sizeof(char*));
```

Memory Leak\Path 8:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=923>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	422	422

Object	instance	instance
--------	----------	----------

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method static CliprdrStream* CliprdrStream_New(ULONG index, void* pData, const FILEDESCRIPTORW* dsc)

```
....
422.         instance = (CliprdrStream*)calloc(1, sizeof(CliprdrStream));
```

Memory Leak\Path 9:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=924>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	428	428
Object	IpVtbl	IpVtbl

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method static CliprdrStream* CliprdrStream_New(ULONG index, void* pData, const FILEDESCRIPTORW* dsc)

```
....
428.         iStream->lpVtbl = (IStreamVtbl*)calloc(1,
sizeof(IStreamVtbl));
```

Memory Leak\Path 10:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=925>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	609	609
Object	m_pStream	m_pStream

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static HRESULT STDMETHODCALLTYPE CliprdrDataObject_GetData(IDataObject* This, FORMATETC* pFormatEtc,

```
....  
609.                                     instance->m_pStream =  
(LPSTREAM*) calloc(instance->m_nStreams, sizeof(LPSTREAM));
```

Memory Leak\Path 11:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=926>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	755	755
Object	instance	instance

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static CliprdrDataObject* CliprdrDataObject_New(FORMATETC* fmtetc, STGMEDIUM* stgmed, ULONG count,

```
....  
755.         instance = (CliprdrDataObject*) calloc(1,  
sizeof(CliprdrDataObject));
```

Memory Leak\Path 12:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=927>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	761	761
Object	IpVtbl	IpVtbl

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static CliprdrDataObject* CliprdrDataObject_New(FORMATETC* fmtetc, STGMEDIUM* stgmed, ULONG count,

```
....
761.          iDataObject->lpVtbl = (IDataObjectVtbl*) calloc(1,
sizeof(IDataObjectVtbl));
```

Memory Leak\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=928
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	786	786
Object	m_pFormatEtc	m_pFormatEtc

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static CliprdrDataObject* CliprdrDataObject_New(FORMATETC* fmtetc, STGMEDIUM* stgmed, ULONG count,

```
....
786.          instance->m_pFormatEtc = (FORMATETC*) calloc(count,
sizeof(FORMATETC));
```

Memory Leak\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=929
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	791	791
Object	m_pStgMedium	m_pStgMedium

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static CliprdrDataObject* CliprdrDataObject_New(FORMATETC* fmtetc, STGMEDIUM* stgmed, ULONG count,

```
....
791.             instance->m_pStgMedium = (STGMEDIUM*) calloc(count,
sizeof(STGMEDIUM));
```

Memory Leak\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=930
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1003	1003
Object	instance	instance

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method ClipdrEnumFORMATETC* ClipdrEnumFORMATETC_New(ULONG nFormats, FORMATETC* pFormatEtc)

```
....
1003.         instance = (ClipdrEnumFORMATETC*) calloc(1,
sizeof(ClipdrEnumFORMATETC));
```

Memory Leak\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=931
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1009	1009
Object	IpVtbl	IpVtbl

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method ClipdrEnumFORMATETC* ClipdrEnumFORMATETC_New(ULONG nFormats, FORMATETC* pFormatEtc)


```
....
1009.          iEnumFORMATETC->lpVtbl = (IEnumFORMATETCVtbl*) calloc(1,
sizeof(IEnumFORMATETCVtbl));
```

Memory Leak\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=932
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1027	1027
Object	m_pFormatEtc	m_pFormatEtc

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method ClipdrEnumFORMATETC* ClipdrEnumFORMATETC_New(ULONG nFormats, FORMATETC* pFormatEtc)

```
....
1027.          instance->m_pFormatEtc = (FORMATETC*) calloc(nFormats,
sizeof(FORMATETC));
```

Memory Leak\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=933
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1911	1911
Object	name	name

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static UINT wf_clipdr_server_format_list(ClipdrClientContext* context,

```
....
1911.          mapping->name = calloc(size + 1, sizeof(WCHAR));
```

Memory Leak\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=934
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2124	2124
Object	wFileName	wFileName

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....  
2124.                                     wFileName = (LPWSTR) calloc (cchWideChar,  
sizeof (WCHAR) );
```

Memory Leak\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=935
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2455	2455
Object	clipboard	clipboard

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method BOOL wf_clipdr_init(wfContext* wfc, ClipdrClientContext* clipdr)

```
....  
2455.         wfc->clipboard = (wfClipboard*) calloc (1,  
sizeof (wfClipboard) );
```

Memory Leak\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=936

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=936
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2483	2483
Object	format_mappings	format_mappings

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method BOOL wf_clipdr_init(wfContext* wfc, ClipdrClientContext* clipdr)

```
....
2483.         if (!(clipboard->format_mappings =
```

Memory Leak\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=937
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c
Line	894	894
Object	drive	drive

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-39347-TP.c
Method static UINT drive_register_drive_path(PDEVICE_SERVICE_ENTRY_POINTS pEntryPoints, const char* name,

```
....
894.         drive = (DRIVE_DEVICE*) calloc(1,
sizeof(DRIVE_DEVICE));
```

Memory Leak\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=938
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c
Line	894	894
Object	drive	drive

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2022-41877-TP.c
Method static UINT drive_register_drive_path(PDEVICE_SERVICE_ENTRY_POINTS pEntryPoints, const char* name,

```
....  
894.             drive = (DRIVE_DEVICE*) calloc(1,  
sizeof(DRIVE_DEVICE));
```

Memory Leak\Path 24:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=939>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c
Line	251	251
Object	BitmapData	BitmapData

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c
Method static BOOL nsc_context_initialize(NSC_CONTEXT* context, wStream* s)

```
....  
251.             context->BitmapData = calloc(1, length + 16);
```

Memory Leak\Path 25:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=940>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c

Line	327	327
Object	context	context

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c

Method NSC_CONTEXT* nsc_context_new(void)

```
....  
327.         context = (NSC_CONTEXT*)calloc(1, sizeof(NSC_CONTEXT));
```

Memory Leak\Path 26:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=941>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c
Line	332	332
Object	priv	priv

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c

Method NSC_CONTEXT* nsc_context_new(void)

```
....  
332.         context->priv = (NSC_CONTEXT_PRIV*)calloc(1,  
sizeof(NSC_CONTEXT_PRIV));
```

Memory Leak\Path 27:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=942>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c
Line	143	143
Object	AvPairs	AvPairs

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-11086-FP.c

Method static int ntlm_read_ntlm_v2_client_challenge(wStream* s, NTLMv2_CLIENT_CHALLENGE* challenge)

```
....  
143.         challenge->AvPairs = (NTLM_AV_PAIR*) malloc (challenge->  
>cbAvPairs);
```

Memory Leak\Path 28:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=943>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	422	422
Object	instance	instance

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static CliprdrStream* CliprdrStream_New(ULONG index, void* pData, const FILEDESCRIPTORW* dsc)

```
....  
422.         instance = (CliprdrStream*) calloc(1, sizeof(CliprdrStream));
```

Memory Leak\Path 29:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=944>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	428	428
Object	IpVtbl	IpVtbl

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static CliprdrStream* CliprdrStream_New(ULONG index, void* pData, const FILEDESCRIPTORW* dsc)

```
....
428.             iStream->lpVtbl = (IStreamVtbl*)calloc(1,
sizeof(IStreamVtbl));
```

Memory Leak\Path 30:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=945
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	609	609
Object	m_pStream	m_pStream

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static HRESULT STDMETHODCALLTYPE CliprdrDataObject_GetData(IDataObject* This, FORMATETC* pFormatEtc,

```
....
609.             instance->m_pStream =
(LPSTREAM*)calloc(instance->m_nStreams, sizeof(LPSTREAM));
```

Memory Leak\Path 31:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=946
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	755	755
Object	instance	instance

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static CliprdrDataObject* CliprdrDataObject_New(FORMATETC* fmtetc, STGMEDIUM* stgmed, ULONG count,

```
....  
755.         instance = (CliprdrDataObject*) calloc(1,  
sizeof(CliprdrDataObject));
```

Memory Leak\Path 32:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=947
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	761	761
Object	lpVtbl	lpVtbl

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static CliprdrDataObject* CliprdrDataObject_New(FORMATETC* fmtetc, STGMEDIUM* stgmed, ULONG count,

```
....  
761.         iDataObject->lpVtbl = (IDataObjectVtbl*) calloc(1,  
sizeof(IDataObjectVtbl));
```

Memory Leak\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=948
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	786	786
Object	m_pFormatEtc	m_pFormatEtc

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static CliprdrDataObject* CliprdrDataObject_New(FORMATETC* fmtetc, STGMEDIUM* stgmed, ULONG count,


```
.....
786.             instance->m_pFormatEtc = (FORMATETC*) calloc(count,
sizeof(FORMATETC));
```

Memory Leak\Path 34:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=949
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	791	791
Object	m_pStgMedium	m_pStgMedium

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static CliprdrDataObject* CliprdrDataObject_New(FORMATETC* fmtetc, STGMEDIUM* stgmed, ULONG count,

```
.....
791.             instance->m_pStgMedium = (STGMEDIUM*) calloc(count,
sizeof(STGMEDIUM));
```

Memory Leak\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=950
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1003	1003
Object	instance	instance

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method CliprdrEnumFORMATETC* CliprdrEnumFORMATETC_New(ULONG nFormats, FORMATETC* pFormatEtc)

```
....
1003.         instance = (CliprdrEnumFORMATETC*) calloc(1,
sizeof(CliprdrEnumFORMATETC));
```

Memory Leak\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=951
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1009	1009
Object	IpVtbl	IpVtbl

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method CliprdrEnumFORMATETC* CliprdrEnumFORMATETC_New(ULONG nFormats, FORMATETC* pFormatEtc)

```
....
1009.         iEnumFORMATETC->lpVtbl = (IEnumFORMATETCVtbl*) calloc(1,
sizeof(IEnumFORMATETCVtbl));
```

Memory Leak\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=952
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1027	1027
Object	m_pFormatEtc	m_pFormatEtc

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method CliprdrEnumFORMATETC* CliprdrEnumFORMATETC_New(ULONG nFormats, FORMATETC* pFormatEtc)

```
.....
1027.                instance->m_pFormatEtc = (FORMATETC*) calloc(nFormats,
sizeof(FORMATETC));
```

Memory Leak\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=953
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1912	1912
Object	name	name

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static UINT wf_clipdr_server_format_list(ClipdrClientContext* context,

```
.....
1912.                mapping->name = calloc(size + 1, sizeof(WCHAR));
```

Memory Leak\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=954
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2125	2125
Object	wFileName	wFileName

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
.....
2125.                wFileName = (LPWSTR) calloc(cchWideChar,
sizeof(WCHAR));
```

Memory Leak\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=955
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2456	2456
Object	clipboard	clipboard

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method BOOL wf_clipdr_init(wfContext* wfc, ClipdrClientContext* clipdr)

```
....  
2456.         wfc->clipboard = (wfClipboard*)calloc(1,  
sizeof(wfClipboard));
```

Memory Leak\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=956
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2484	2484
Object	format_mappings	format_mappings

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method BOOL wf_clipdr_init(wfContext* wfc, ClipdrClientContext* clipdr)

```
....  
2484.         if (!(clipboard->format_mappings =
```

Memory Leak\Path 42:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=957

Status	New
--------	-----

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c
Line	898	898
Object	drive	drive

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-39347-TP.c

Method static UINT drive_register_drive_path(PDEVICE_SERVICE_ENTRY_POINTS pEntryPoints, const char* name,

```
....  
898.             drive = (DRIVE_DEVICE*) calloc(1,  
sizeof(DRIVE_DEVICE));
```

Memory Leak\Path 43:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=958>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c
Line	898	898
Object	drive	drive

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2022-41877-TP.c

Method static UINT drive_register_drive_path(PDEVICE_SERVICE_ENTRY_POINTS pEntryPoints, const char* name,

```
....  
898.             drive = (DRIVE_DEVICE*) calloc(1,  
sizeof(DRIVE_DEVICE));
```

Memory Leak\Path 44:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=959>

Status New

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c
Line	251	251
Object	BitmapData	BitmapData

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c

Method static BOOL nsc_context_initialize(NSC_CONTEXT* context, wStream* s)

```
....  
251.             context->BitmapData = calloc(1, length + 16);
```

Memory Leak\Path 45:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=960>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c
Line	327	327
Object	context	context

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c

Method NSC_CONTEXT* nsc_context_new(void)

```
....  
327.             context = (NSC_CONTEXT*)calloc(1, sizeof(NSC_CONTEXT));
```

Memory Leak\Path 46:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=961>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c
Line	332	332
Object	priv	priv

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c

Method NSC_CONTEXT* nsc_context_new(void)

```
....  
332.         context->priv = (NSC_CONTEXT_PRIV*) calloc(1,  
sizeof(NSC_CONTEXT_PRIV));
```

Memory Leak\Path 47:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=962>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	106	106
Object	ret	ret

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_read_info_null_string(UINT32 flags, wStream* s, size_t cbLen, CHAR** dst,

```
....  
106.         ret = calloc(cbLen + 1, nullSize);
```

Memory Leak\Path 48:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=963>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c
Line	143	143
Object	AvPairs	AvPairs

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2020-11086-FP.c

Method static int ntlm_read_ntlm_v2_client_challenge(wStream* s, NTLMv2_CLIENT_CHALLENGE* challenge)

```
.....
143.         challenge->AvPairs = (NTLM_AV_PAIR*)malloc(challenge-
>cbAvPairs);
```

Memory Leak\Path 49:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=964
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	422	422
Object	instance	instance

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static CliprdrStream* CliprdrStream_New(ULONG index, void* pData, const FILEDESCRIPTORW* dsc)

```
.....
422.         instance = (CliprdrStream*)calloc(1, sizeof(CliprdrStream));
```

Memory Leak\Path 50:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=965
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	428	428
Object	IpVtbl	IpVtbl

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static CliprdrStream* CliprdrStream_New(ULONG index, void* pData, const FILEDESCRIPTORW* dsc)


```
.....
428.                iStream->lpVtbl = (IStreamVtbl*)calloc(1,
sizeof(IStreamVtbl));
```

Use of Zero Initialized Pointer

Query Path:

CPP\Cx\CPP Medium Threat\Use of Zero Initialized Pointer Version:1

Categories

NIST SP 800-53: SC-5 Denial of Service Protection (P1)

Description

Use of Zero Initialized Pointer\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1066
Status	New

The variable declared in formats at FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c in line 1229 is not initialized when it is used by formats at FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c in line 1229.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1237	1293
Object	formats	formats

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static UINT clipdr_send_format_list(wfClipboard* clipboard)

```
.....
1237.                CLIPDR_FORMAT* formats = NULL;
.....
1293.                free(formats[index].formatName);
```

Use of Zero Initialized Pointer\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1067
Status	New

The variable declared in formats at FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c in line 1229 is not initialized when it is used by formats at FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c in line 1229.

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1237	1293
Object	formats	formats

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static UINT cliprdr_send_format_list(wfClipboard* clipboard)

```
....  
1237.          CLIPRDR_FORMAT* formats = NULL;  
....  
1293.          free(formats[index].formatName);
```

Use of Zero Initialized Pointer\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1068
Status	New

The variable declared in buff at FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c in line 2040 is not initialized when it is used by buff at FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c in line 2040.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2045	2175
Object	buff	buff

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method wf_cliprdr_server_format_data_request(CliprdrClientContext* context,

```
....  
2045.          void* buff = NULL;  
....  
2175.          response.requestedFormatData = (BYTE*)buff;
```

Use of Zero Initialized Pointer\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1069
Status	New

The variable declared in andBits at FreeRDP@@FreeRDP-2.0.0-CVE-2024-32659-TP.c in line 305 is not initialized when it is used by andBits at FreeRDP@@FreeRDP-2.0.0-CVE-2024-32659-TP.c in line 305.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32659-TP.c
Line	438	495
Object	andBits	andBits

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32659-TP.c

Method BOOL freerdp_image_copy_from_pointer_data(BYTE* pDstData, UINT32 DstFormat, UINT32 nDstStep,

```
....  
438.                                     const BYTE* andBits = NULL;  
....  
495.                                     andBits++;
```

Use of Zero Initialized Pointer\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1070>

Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c
Line	43	93
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdp_snd_activated(RdpSndServerContext* context)

```
....  
43.  AUDIO_FORMAT* agreedFormat = NULL;  
....  
93.  recorderState.dataFormat.mSampleRate = agreedFormat->nSamplesPerSec;
```

Use of Zero Initialized Pointer\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1071>

Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c
Line	43	99
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.    AUDIO_FORMAT* agreedFormat = NULL;  
....  
99.    recorderState.dataFormat.mChannelsPerFrame = agreedFormat->nChannels;
```

Use of Zero Initialized Pointer\Path 7:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1072>

Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c
Line	43	100
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.    AUDIO_FORMAT* agreedFormat = NULL;  
....  
100.    recorderState.dataFormat.mBitsPerChannel = agreedFormat->wBitsPerSample;
```

Use of Zero Initialized Pointer\Path 8:

Severity Medium

Result State To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1073
Status	New

The variable declared in formats at FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c in line 1229 is not initialized when it is used by formats at FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c in line 1229.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1237	1294
Object	formats	formats

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static UINT cliprdr_send_format_list(wfClipboard* clipboard)

```
....  
1237.          CLIPRDR_FORMAT* formats = NULL;  
....  
1294.          free(formats[index].formatName);
```

Use of Zero Initialized Pointer\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1074
Status	New

The variable declared in formats at FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c in line 1229 is not initialized when it is used by formats at FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c in line 1229.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1237	1294
Object	formats	formats

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static UINT cliprdr_send_format_list(wfClipboard* clipboard)

```
....  
1237.          CLIPRDR_FORMAT* formats = NULL;  
....  
1294.          free(formats[index].formatName);
```

Use of Zero Initialized Pointer\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1075
Status	New

The variable declared in buff at FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c in line 2041 is not initialized when it is used by buff at FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c in line 2041.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2046	2176
Object	buff	buff

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....  
2046.         void* buff = NULL;  
....  
2176.         response.requestedFormatData = (BYTE*)buff;
```

Use of Zero Initialized Pointer\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1076
Status	New

The variable declared in andBits at FreeRDP@@FreeRDP-2.2.0-CVE-2024-32659-TP.c in line 390 is not initialized when it is used by andBits at FreeRDP@@FreeRDP-2.2.0-CVE-2024-32659-TP.c in line 390.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32659-TP.c
Line	440	496
Object	andBits	andBits

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32659-TP.c
Method static BOOL freerdp_image_copy_from_pointer_data_xbpp(BYTE* pDstData, UINT32 DstFormat,

```

.....
440.                const BYTE* andBits = NULL;
.....
496.                                andBits++;

```

Use of Zero Initialized Pointer\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1077
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c
Line	43	93
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c
Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```

.....
43.    AUDIO_FORMAT* agreedFormat = NULL;
.....
93.    recorderState.dataFormat.mSampleRate = agreedFormat->nSamplesPerSec;

```

Use of Zero Initialized Pointer\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1078
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c
Line	43	99
Object	agreedFormat	agreedFormat

Code Snippet**File Name** FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c**Method** static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.     AUDIO_FORMAT* agreedFormat = NULL;  
....  
99.     recorderState.dataFormat.mChannelsPerFrame = agreedFormat->nChannels;
```

Use of Zero Initialized Pointer\Path 14:**Severity** Medium**Result State** To Verify**Online Results** <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1079>**Status** New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c
Line	43	100
Object	agreedFormat	agreedFormat

Code Snippet**File Name** FreeRDP@@FreeRDP-2.3.0-CVE-2020-13397-FP.c**Method** static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.     AUDIO_FORMAT* agreedFormat = NULL;  
....  
100.         recorderState.dataFormat.mBitsPerChannel = agreedFormat->wBitsPerSample;
```

Use of Zero Initialized Pointer\Path 15:**Severity** Medium**Result State** To Verify**Online Results** <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1080>**Status** New

The variable declared in formats at FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c in line 1229 is not initialized when it is used by formats at FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c in line 1229.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Line	1237	1294
Object	formats	formats

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static UINT cliprdr_send_format_list(wfClipboard* clipboard)

```
....
1237.          CLIPRDR_FORMAT* formats = NULL;
....
1294.          free(formats[index].formatName);
```

Use of Zero Initialized Pointer\Path 16:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1081>
Status New

The variable declared in formats at FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c in line 1229 is not initialized when it is used by formats at FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c in line 1229.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1237	1294
Object	formats	formats

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static UINT cliprdr_send_format_list(wfClipboard* clipboard)

```
....
1237.          CLIPRDR_FORMAT* formats = NULL;
....
1294.          free(formats[index].formatName);
```

Use of Zero Initialized Pointer\Path 17:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1082>
Status New

The variable declared in buff at FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c in line 2041 is not initialized when it is used by buff at FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c in line 2041.

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	2046	2176
Object	buff	buff

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```

.....
2046.         void* buff = NULL;
.....
2176.         response.requestedFormatData = (BYTE*)buff;

```

Use of Zero Initialized Pointer\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1083
Status	New

The variable declared in andBits at FreeRDP@@FreeRDP-2.3.0-CVE-2024-32659-TP.c in line 394 is not initialized when it is used by andBits at FreeRDP@@FreeRDP-2.3.0-CVE-2024-32659-TP.c in line 394.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32659-TP.c
Line	444	500
Object	andBits	andBits

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2024-32659-TP.c
Method static BOOL freerdp_image_copy_from_pointer_data_xbpp(BYTE* pDstData, UINT32 DstFormat,

```

.....
444.         const BYTE* andBits = NULL;
.....
500.         andBits++;

```

Use of Zero Initialized Pointer\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1084
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c
Line	43	93
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.  AUDIO_FORMAT* agreedFormat = NULL;  
....  
93.  recorderState.dataFormat.mSampleRate = agreedFormat->nSamplesPerSec;
```

Use of Zero Initialized Pointer\Path 20:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1085>

Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c
Line	43	99
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.  AUDIO_FORMAT* agreedFormat = NULL;  
....  
99.  recorderState.dataFormat.mChannelsPerFrame = agreedFormat->nChannels;
```

Use of Zero Initialized Pointer\Path 21:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1085>

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1086
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c
Line	43	100
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.     AUDIO_FORMAT* agreedFormat = NULL;  
....  
100.         recorderState.dataFormat.mBitsPerChannel = agreedFormat->wBitsPerSample;
```

Use of Zero Initialized Pointer\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1087
Status	New

The variable declared in andBits at FreeRDP@@FreeRDP-2.4.0-CVE-2024-32659-TP.c in line 394 is not initialized when it is used by andBits at FreeRDP@@FreeRDP-2.4.0-CVE-2024-32659-TP.c in line 394.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32659-TP.c
Line	444	500
Object	andBits	andBits

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2024-32659-TP.c

Method static BOOL freerdp_image_copy_from_pointer_data_xbpp(BYTE* pDstData, UINT32 DstFormat,

```
....  
444.         const BYTE* andBits = NULL;  
....  
500.         andBits++;
```

Use of Zero Initialized Pointer\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1088
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c
Line	43	93
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c
Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.     AUDIO_FORMAT* agreedFormat = NULL;  
....  
93.     recorderState.dataFormat.mSampleRate = agreedFormat->nSamplesPerSec;
```

Use of Zero Initialized Pointer\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1089
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c
Line	43	99
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c
Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```

.....
43.    AUDIO_FORMAT* agreedFormat = NULL;
.....
99.    recorderState.dataFormat.mChannelsPerFrame = agreedFormat-
>nChannels;

```

Use of Zero Initialized Pointer\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1090
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c
Line	43	100
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2020-13397-FP.c
Method static void mf_peer_rdpnd_activated(RdpndServerContext* context)

```

.....
43.    AUDIO_FORMAT* agreedFormat = NULL;
.....
100.    recorderState.dataFormat.mBitsPerChannel = agreedFormat-
>wBitsPerSample;

```

Use of Zero Initialized Pointer\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1091
Status	New

The variable declared in andBits at FreeRDP@@FreeRDP-2.5.0-CVE-2024-32659-TP.c in line 394 is not initialized when it is used by andBits at FreeRDP@@FreeRDP-2.5.0-CVE-2024-32659-TP.c in line 394.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32659-TP.c
Line	444	500
Object	andBits	andBits

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2024-32659-TP.c

Method static BOOL freerdp_image_copy_from_pointer_data_xbpp(BYTE* pDstData, UINT32 DstFormat,

```
....  
444.          const BYTE* andBits = NULL;  
....  
500.                      andBits++;
```

Use of Zero Initialized Pointer\Path 27:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1092>

Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c
Line	43	93
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.  AUDIO_FORMAT* agreedFormat = NULL;  
....  
93.  recorderState.dataFormat.mSampleRate = agreedFormat->nSamplesPerSec;
```

Use of Zero Initialized Pointer\Path 28:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1093>

Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2020-	FreeRDP@@FreeRDP-2.7.0-CVE-2020-

	13397-FP.c	13397-FP.c
Line	43	99
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.    AUDIO_FORMAT* agreedFormat = NULL;  
....  
99.    recorderState.dataFormat.mChannelsPerFrame = agreedFormat-  
>nChannels;
```

Use of Zero Initialized Pointer\Path 29:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1094>

Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c
Line	43	100
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.7.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.    AUDIO_FORMAT* agreedFormat = NULL;  
....  
100.    recorderState.dataFormat.mBitsPerChannel = agreedFormat-  
>wBitsPerSample;
```

Use of Zero Initialized Pointer\Path 30:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1095>

Status New

The variable declared in andBits at FreeRDP@@FreeRDP-2.7.0-CVE-2024-32659-TP.c in line 394 is not initialized when it is used by andBits at FreeRDP@@FreeRDP-2.7.0-CVE-2024-32659-TP.c in line 394.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32659-TP.c
Line	444	500
Object	andBits	andBits

Code Snippet

File Name FreeRDP@@FreeRDP-2.7.0-CVE-2024-32659-TP.c

Method static BOOL freerdp_image_copy_from_pointer_data_xbpp(BYTE* pDstData, UINT32 DstFormat,

```
....  
444.          const BYTE* andBits = NULL;  
....  
500.          andBits++;
```

Use of Zero Initialized Pointer\Path 31:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1096>

Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c
Line	43	93
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.  AUDIO_FORMAT* agreedFormat = NULL;  
....  
93.  recorderState.dataFormat.mSampleRate = agreedFormat->nSamplesPerSec;
```

Use of Zero Initialized Pointer\Path 32:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1096>

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1097
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c
Line	43	99
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.     AUDIO_FORMAT* agreedFormat = NULL;  
....  
99.     recorderState.dataFormat.mChannelsPerFrame = agreedFormat->nChannels;
```

Use of Zero Initialized Pointer\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1098
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c
Line	43	100
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.8.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
43.     AUDIO_FORMAT* agreedFormat = NULL;  
....  
100.         recorderState.dataFormat.mBitsPerChannel = agreedFormat->wBitsPerSample;
```

Use of Zero Initialized Pointer\Path 34:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1099
Status	New

The variable declared in andBits at FreeRDP@@FreeRDP-2.8.0-CVE-2024-32659-TP.c in line 394 is not initialized when it is used by andBits at FreeRDP@@FreeRDP-2.8.0-CVE-2024-32659-TP.c in line 394.

	Source	Destination
File	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32659-TP.c
Line	444	500
Object	andBits	andBits

Code Snippet

File Name FreeRDP@@FreeRDP-2.8.0-CVE-2024-32659-TP.c
Method static BOOL freerdp_image_copy_from_pointer_data_xbpp(BYTE* pDstData, UINT32 DstFormat,

```
....  
444.          const BYTE* andBits = NULL;  
....  
500.          andBits++;
```

Use of Zero Initialized Pointer\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1100
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c
Line	43	93
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c
Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
.....
43.    AUDIO_FORMAT* agreedFormat = NULL;
.....
93.    recorderState.dataFormat.mSampleRate = agreedFormat-
>nSamplesPerSec;
```

Use of Zero Initialized Pointer\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1101
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c
Line	43	99
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c
Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
.....
43.    AUDIO_FORMAT* agreedFormat = NULL;
.....
99.    recorderState.dataFormat.mChannelsPerFrame = agreedFormat-
>nChannels;
```

Use of Zero Initialized Pointer\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1102
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c in line 38 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c in line 38.

	Source	Destination
File	FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c
Line	43	100
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-2.9.0-CVE-2020-13397-FP.c
Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....
43.     AUDIO_FORMAT* agreedFormat = NULL;
....
100.         recorderState.dataFormat.mBitsPerChannel = agreedFormat-
>wBitsPerSample;
```

Use of Zero Initialized Pointer\Path 38:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1103>
Status New

The variable declared in andBits at FreeRDP@@FreeRDP-2.9.0-CVE-2024-32659-TP.c in line 394 is not initialized when it is used by andBits at FreeRDP@@FreeRDP-2.9.0-CVE-2024-32659-TP.c in line 394.

	Source	Destination
File	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32659-TP.c
Line	444	500
Object	andBits	andBits

Code Snippet

File Name FreeRDP@@FreeRDP-2.9.0-CVE-2024-32659-TP.c
Method static BOOL freerdp_image_copy_from_pointer_data_xbpp(BYTE* pDstData, UINT32 DstFormat,

```
....
444.         const BYTE* andBits = NULL;
....
500.         andBits++;
```

Use of Zero Initialized Pointer\Path 39:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1104>
Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c in line 37 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c in line 37.

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c
Line	42	92
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c
Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
42.    AUDIO_FORMAT* agreedFormat = NULL;  
....  
92.    recorderState.dataFormat.mSampleRate = agreedFormat-  
>nSamplesPerSec;
```

Use of Zero Initialized Pointer\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1105
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c in line 37 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c in line 37.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c
Line	42	98
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c
Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
42.    AUDIO_FORMAT* agreedFormat = NULL;  
....  
98.    recorderState.dataFormat.mChannelsPerFrame = agreedFormat-  
>nChannels;
```

Use of Zero Initialized Pointer\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1106
Status	New

The variable declared in `agreedFormat` at `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c` in line 37 is not initialized when it is used by `agreedFormat` at `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c` in line 37.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c
Line	42	99
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
42.     AUDIO_FORMAT* agreedFormat = NULL;  
....  
99.     recorderState.dataFormat.mBitsPerChannel = agreedFormat->wBitsPerSample;
```

Use of Zero Initialized Pointer\Path 42:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1107>

Status New

The variable declared in `andBits` at `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c` in line 391 is not initialized when it is used by `andBits` at `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c` in line 391.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c
Line	439	495
Object	andBits	andBits

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c

Method static BOOL freerdp_image_copy_from_pointer_data_xbpp(BYTE* pDstData, UINT32 DstFormat,

```
....  
439.         const BYTE* andBits = NULL;  
....  
495.         andBits++;
```

Use of Zero Initialized Pointer\Path 43:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1108
Status	New

The variable declared in data at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c in line 163 is not initialized when it is used by data at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c in line 163.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	166	171
Object	data	data

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_unicode_string(wStream* s, char** str, size_t maxLength)

```
....  
166.         const BYTE* data = NULL;  
....  
171.         const WCHAR* wstr = (const WCHAR*)data;
```

Use of Zero Initialized Pointer\Path 44:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1109
Status	New

The variable declared in ptr at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c in line 243 is not initialized when it is used by ptr at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c in line 243.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	248	252
Object	ptr	ptr

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,


```

....
248.         const BYTE* ptr = NULL;
....
252.         const WCHAR* wchar = (const WCHAR*)ptr;

```

Use of Zero Initialized Pointer\Path 45:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1110
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c in line 37 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c in line 37.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c
Line	42	92
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c
Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```

....
42.     AUDIO_FORMAT* agreedFormat = NULL;
....
92.     recorderState.dataFormat.mSampleRate = agreedFormat->nSamplesPerSec;

```

Use of Zero Initialized Pointer\Path 46:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1111
Status	New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c in line 37 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c in line 37.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c
Line	42	98

Object	agreedFormat	agreedFormat
--------	--------------	--------------

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
42.     AUDIO_FORMAT* agreedFormat = NULL;  
....  
98.     recorderState.dataFormat.mChannelsPerFrame = agreedFormat->nChannels;
```

Use of Zero Initialized Pointer\Path 47:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1112>

Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c in line 37 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c in line 37.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c
Line	42	99
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```
....  
42.     AUDIO_FORMAT* agreedFormat = NULL;  
....  
99.     recorderState.dataFormat.mBitsPerChannel = agreedFormat->wBitsPerSample;
```

Use of Zero Initialized Pointer\Path 48:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1113>

Status New

The variable declared in data at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c in line 165 is not initialized when it is used by data at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c in line 165.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	168	173
Object	data	data

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_unicode_string(wStream* s, char** str, size_t maxLength)

```
....  
168.         const BYTE* data = NULL;  
....  
173.         const WCHAR* wstr = (const WCHAR*)data;
```

Use of Zero Initialized Pointer\Path 49:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1114>
Status New

The variable declared in ptr at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c in line 245 is not initialized when it is used by ptr at FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c in line 245.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	250	254
Object	ptr	ptr

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,

```
....  
250.         const BYTE* ptr = NULL;  
....  
254.         const WCHAR* wchar = (const WCHAR*)ptr;
```

Use of Zero Initialized Pointer\Path 50:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1115>
Status New

The variable declared in agreedFormat at FreeRDP@@FreeRDP-3.4.0-CVE-2020-13397-FP.c in line 37 is not initialized when it is used by agreedFormat at FreeRDP@@FreeRDP-3.4.0-CVE-2020-13397-FP.c in line 37.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2020-13397-FP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2020-13397-FP.c
Line	41	92
Object	agreedFormat	agreedFormat

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2020-13397-FP.c

Method static void mf_peer_rdpwnd_activated(RdpwndServerContext* context)

```

....
41.     AUDIO_FORMAT* agreedFormat = NULL;
....
92.     recorderState.dataFormat.mSampleRate = agreedFormat-
>nSamplesPerSec;

```

Buffer Overflow boundcpy WrongSizeParam

Query Path:

CPP\Cx\CPP Buffer Overflow\Buffer Overflow boundcpy WrongSizeParam Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows

OWASP Top 10 2017: A1-Injection

Description

Buffer Overflow boundcpy WrongSizeParam\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=16
Status	New

The size of the buffer used by stun_parse_attr_error_code in uint32_t, at line 235 of freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that stun_parse_attr_error_code passes to uint32_t, at line 235 of freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	240	240
Object	uint32_t	uint32_t

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c

Method `int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {`

```
....  
240.     memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 2:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=17>
Status New

The size of the buffer used by `stun_parse_attr_uint32` in `uint32_t`, at line 257 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_uint32` passes to `uint32_t`, at line 257 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	262	262
Object	<code>uint32_t</code>	<code>uint32_t</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `int stun_parse_attr_uint32(stun_attr_t *attr, const unsigned char *p, unsigned len)`

```
....  
262.     memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 3:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=18>
Status New

The size of the buffer used by `stun_encode_address` in `tmp`, at line 355 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_address` passes to `tmp`, at line 355 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	366	366
Object	<code>tmp</code>	<code>tmp</code>

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_encode_address(stun_attr_t *attr) {

```
....  
366.        memcpy(attr->enc_buf.data+4, &tmp, sizeof(tmp));
```

Buffer Overflow boundcpy WrongSizeParam\Path 4:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=19>
Status New

The size of the buffer used by `stun_parse_attr_error_code` in `uint32_t`, at line 235 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_error_code` passes to `uint32_t`, at line 235 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	240	240
Object	uint32_t	uint32_t

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {

```
....  
240.        memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 5:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=20>
Status New

The size of the buffer used by `stun_parse_attr_uint32` in `uint32_t`, at line 257 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_uint32` passes to `uint32_t`, at line 257 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Line	262	262
Object	uint32_t	uint32_t

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Method int stun_parse_attr_uint32(stun_attr_t *attr, const unsigned char *p, unsigned len)

```
....  
262.     memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=21>

Status New

The size of the buffer used by `stun_encode_address` in `tmp`, at line 355 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_address` passes to `tmp`, at line 355 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	366	366
Object	tmp	tmp

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Method int stun_encode_address(stun_attr_t *attr) {

```
....  
366.     memcpy(attr->enc_buf.data+4, &tmp, sizeof(tmp));
```

Buffer Overflow boundcpy WrongSizeParam\Path 7:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=22>

Status New

The size of the buffer used by `stun_parse_attr_error_code` in `uint32_t`, at line 235 of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_error_code` passes to `uint32_t`, at line 235 of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`, to overwrite the target buffer.

Source	Destination
--------	-------------

File	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Line	240	240
Object	uint32_t	uint32_t

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c

Method int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {

```
....  
240.     memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 8:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=23>

Status New

The size of the buffer used by stun_parse_attr_uint32 in uint32_t, at line 257 of freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that stun_parse_attr_uint32 passes to uint32_t, at line 257 of freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Line	262	262
Object	uint32_t	uint32_t

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c

Method int stun_parse_attr_uint32(stun_attr_t *attr, const unsigned char *p, unsigned len)

```
....  
262.     memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 9:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=24>

Status New

The size of the buffer used by stun_encode_address in tmp, at line 355 of freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer

overflow attack, using the source buffer that `stun_encode_address` passes to `tmp`, at line 355 of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>
Line	366	366
Object	<code>tmp</code>	<code>tmp</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`

Method `int stun_encode_address(stun_attr_t *attr) {`

```
....  
366.     memcpy(attr->enc_buf.data+4, &tmp, sizeof(tmp));
```

Buffer Overflow boundcpy WrongSizeParam\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=25
Status	New

The size of the buffer used by `stun_parse_attr_error_code` in `uint32_t`, at line 235 of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_error_code` passes to `uint32_t`, at line 235 of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c</code>
Line	240	240
Object	<code>uint32_t</code>	<code>uint32_t</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c`

Method `int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {`

```
....  
240.     memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=26
Status	New

The size of the buffer used by `stun_parse_attr_uint32` in `uint32_t`, at line 257 of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_uint32` passes to `uint32_t`, at line 257 of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	262	262
Object	uint32_t	uint32_t

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c

Method `int stun_parse_attr_uint32(stun_attr_t *attr, const unsigned char *p, unsigned len)`

```
....  
262.     memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 12:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=27>

Status New

The size of the buffer used by `stun_encode_address` in `tmp`, at line 355 of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_address` passes to `tmp`, at line 355 of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	366	366
Object	tmp	tmp

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c

Method `int stun_encode_address(stun_attr_t *attr) {`

```
....  
366.     memcpy(attr->enc_buf.data+4, &tmp, sizeof(tmp));
```

Buffer Overflow boundcpy WrongSizeParam\Path 13:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=28>

Status New

The size of the buffer used by `stun_parse_attr_error_code` in `uint32_t`, at line 235 of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_error_code` passes to `uint32_t`, at line 235 of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Line	240	240
Object	uint32_t	uint32_t

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c

Method `int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {`

```
....  
240.     memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 14:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=29>

Status New

The size of the buffer used by `stun_parse_attr_uint32` in `uint32_t`, at line 257 of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_uint32` passes to `uint32_t`, at line 257 of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Line	262	262
Object	uint32_t	uint32_t

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c

Method `int stun_parse_attr_uint32(stun_attr_t *attr, const unsigned char *p, unsigned len)`

```
....  
262.     memcpy(&tmp, p, sizeof(uint32_t));
```

Buffer Overflow boundcpy WrongSizeParam\Path 15:

Severity Medium

Result State To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=30
Status	New

The size of the buffer used by `stun_encode_address` in `tmp`, at line 355 of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_address` passes to `tmp`, at line 355 of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c</code>
Line	366	366
Object	<code>tmp</code>	<code>tmp</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`

Method `int stun_encode_address(stun_attr_t *attr) {`

```
....  
366.     memcpy(attr->enc_buf.data+4, &tmp, sizeof(tmp));
```

Buffer Overflow boundcpy WrongSizeParam\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=31
Status	New

The size of the buffer used by `parsing_error` in `Namespace1150220909`, at line 1913 of `freeswitch@@sofia-sip-v1.13.2-CVE-2022-31003-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `parsing_error` passes to `Namespace1150220909`, at line 1913 of `freeswitch@@sofia-sip-v1.13.2-CVE-2022-31003-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2022-31003-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2022-31003-TP.c</code>
Line	1918	1918
Object	<code>Namespace1150220909</code>	<code>Namespace1150220909</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2022-31003-TP.c`

Method `static int parsing_error(sdp_parser_t *p, char const *fmt, ...)`

```
....  
1918.     memset(p->pr_error, 0, sizeof(p->pr_error));
```

Buffer Overflow boundcpy WrongSizeParam\Path 17:

Severity	Medium
----------	--------

Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=32
Status	New

The size of the buffer used by parsing_error in Namespace1716365138, at line 1913 of freeswitch@@sofia-sip-v1.13.3-CVE-2022-31003-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that parsing_error passes to Namespace1716365138, at line 1913 of freeswitch@@sofia-sip-v1.13.3-CVE-2022-31003-TP.c, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.3-CVE-2022-31003-TP.c	freeswitch@@sofia-sip-v1.13.3-CVE-2022-31003-TP.c
Line	1918	1918
Object	Namespace1716365138	Namespace1716365138

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.3-CVE-2022-31003-TP.c
Method static int parsing_error(sdp_parser_t *p, char const *fmt, ...)

```
....  
1918.    memset(p->pr_error, 0, sizeof(p->pr_error));
```

Buffer Overflow boundcpy WrongSizeParam\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=33
Status	New

The size of the buffer used by parsing_error in Namespace294899895, at line 1913 of freeswitch@@sofia-sip-v1.13.4-CVE-2022-31003-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that parsing_error passes to Namespace294899895, at line 1913 of freeswitch@@sofia-sip-v1.13.4-CVE-2022-31003-TP.c, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2022-31003-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2022-31003-TP.c
Line	1918	1918
Object	Namespace294899895	Namespace294899895

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2022-31003-TP.c
Method static int parsing_error(sdp_parser_t *p, char const *fmt, ...)

```
....  
1918.    memset(p->pr_error, 0, sizeof(p->pr_error));
```

Buffer Overflow boundcpy WrongSizeParam\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=34
Status	New

The size of the buffer used by parsing_error in Namespace1792866305, at line 1917 of freeswitch@@sofia-sip-v1.13.6-CVE-2022-31003-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that parsing_error passes to Namespace1792866305, at line 1917 of freeswitch@@sofia-sip-v1.13.6-CVE-2022-31003-TP.c, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2022-31003-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2022-31003-TP.c
Line	1922	1922
Object	Namespace1792866305	Namespace1792866305

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2022-31003-TP.c
Method static int parsing_error(sdp_parser_t *p, char const *fmt, ...)

```
....  
1922.      memset(p->pr_error, 0, sizeof(p->pr_error));
```

Buffer Overflow boundcpy WrongSizeParam\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=35
Status	New

The size of the buffer used by crypto_rsa_common in length, at line 96 of FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that crypto_rsa_common passes to length, at line 96 of FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c
Line	116	116
Object	length	length

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c
Method static int crypto_rsa_common(const BYTE* input, int length, UINT32 key_length, const BYTE* modulus,

```
....  
116.      memcpy(input_reverse, input, length);
```

Buffer Overflow boundcpy WrongSizeParam\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=36
Status	New

The size of the buffer used by `avc444_compress` in `codedSize`, at line 292 of `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `avc444_compress` passes to `codedSize`, at line 292 of `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
Line	371	371
Object	<code>codedSize</code>	<code>codedSize</code>

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
Method INT32 `avc444_compress`(H264_CONTEXT* `h264`, const BYTE* `pSrcData`, DWORD `SrcFormat`, UINT32 `nSrcStep`,

```
....  
371.          memcpy(h264->lumaData, coded, codedSize);
```

Buffer Overflow boundcpy WrongSizeParam\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=37
Status	New

The size of the buffer used by `redirection_copy_data` in `len`, at line 101 of `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `redirection_copy_data` passes to `len`, at line 101 of `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	113	113
Object	<code>len</code>	<code>len</code>

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static BOOL `redirection_copy_data`(BYTE** `dst`, UINT32* `plen`, const BYTE* `str`, size_t `len`)


```
....  
113.         memcpy(*dst, str, len);
```

Buffer Overflow boundcpy WrongSizeParam\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=38
Status	New

The size of the buffer used by `rdp_redirection_read_base64_wchar` in `bplen`, at line 243 of `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `rdp_redirection_read_base64_wchar` passes to `bplen`, at line 243 of `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	279	279
Object	bplen	bplen

Code Snippet

File Name `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c`
Method `static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,`

```
....  
279.         memcpy(&(*pData)[wpos], bptr, bplen);
```

Buffer Overflow boundcpy WrongSizeParam\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=39
Status	New

The size of the buffer used by `avc444_compress` in `codedSize`, at line 296 of `FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `avc444_compress` passes to `codedSize`, at line 296 of `FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Line	375	375
Object	codedSize	codedSize

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Method INT32 avc444_compress(H264_CONTEXT* h264, const BYTE* pSrcData, DWORD SrcFormat, UINT32 nSrcStep,

```
....  
375.             memcpy(h264->lumaData, coded, codedSize);
```

Buffer Overflow boundcpy WrongSizeParam\Path 25:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=40>
Status New

The size of the buffer used by redirection_copy_data in len, at line 103 of FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that redirection_copy_data passes to len, at line 103 of FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	115	115
Object	len	len

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_data(BYTE** dst, UINT32* plen, const BYTE* str, size_t len)

```
....  
115.             memcpy(*dst, str, len);
```

Buffer Overflow boundcpy WrongSizeParam\Path 26:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=41>
Status New

The size of the buffer used by rdp_redirection_read_base64_wchar in bplen, at line 245 of FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rdp_redirection_read_base64_wchar passes to bplen, at line 245 of FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c

Line	281	281
Object	bplen	bplen

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
 Method static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,

```
....
281.             memcpy(&(*pData)[wpos], bptr, bplen);
```

Buffer Overflow boundcpy WrongSizeParam\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=42
Status	New

The size of the buffer used by avc444_compress in codedSize, at line 298 of FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that avc444_compress passes to codedSize, at line 298 of FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c
Line	377	377
Object	codedSize	codedSize

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c
 Method INT32 avc444_compress(H264_CONTEXT* h264, const BYTE* pSrcData, DWORD SrcFormat, UINT32 nSrcStep,

```
....
377.             memcpy(h264->lumaData, coded, codedSize);
```

Buffer Overflow boundcpy WrongSizeParam\Path 28:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=43
Status	New

The size of the buffer used by redirection_copy_data in len, at line 103 of FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that redirection_copy_data passes to len, at line 103 of FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	115	115
Object	len	len

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_data(BYTE** dst, UINT32* plen, const BYTE* str, size_t len)

```
....  
115.         memcpy(*dst, str, len);
```

Buffer Overflow boundcpy WrongSizeParam\Path 29:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=44>
Status New

The size of the buffer used by rdp_redirection_read_base64_wchar in bplen, at line 234 of FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rdp_redirection_read_base64_wchar passes to bplen, at line 234 of FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	270	270
Object	bplen	bplen

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,

```
....  
270.         memcpy(&(*pData)[wpos], bptr, bplen);
```

Buffer Overflow boundcpy WrongSizeParam\Path 30:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=45>
Status New

The size of the buffer used by `avc444_compress` in `codedSize`, at line 336 of `FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `avc444_compress` passes to `codedSize`, at line 336 of `FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Line	415	415
Object	codedSize	codedSize

Code Snippet

File Name FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c

Method INT32 `avc444_compress`(H264_CONTEXT* `h264`, const BYTE* `pSrcData`, DWORD `SrcFormat`, UINT32 `nSrcStep`,

```
....  
415.         memcpy(h264->lumaData, coded, codedSize);
```

Buffer Overflow boundcpy WrongSizeParam\Path 31:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=46>

Status New

The size of the buffer used by `mbdctl_x509_set_extension` in `val_len`, at line 213 of `FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `mbdctl_x509_set_extension` passes to `val_len`, at line 213 of `FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c`, to overwrite the target buffer.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c
Line	225	225
Object	val_len	val_len

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c

Method int `mbdctl_x509_set_extension`(`mbdctl_asn1_named_data **head`, const char *`oid`, size_t `oid_len`,

```
....  
225.         memcpy( cur->val.p + 1, val, val_len );
```

Buffer Overflow boundcpy WrongSizeParam\Path 32:

Severity Medium

Result State To Verify

Online Results <http://WIN->

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=47
Status	New

The size of the buffer used by mbedtls_x509_write_sig in len, at line 294 of FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that mbedtls_x509_write_sig passes to len, at line 294 of FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c, to overwrite the target buffer.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c
Line	306	306
Object	len	len

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2024-23775-TP.c
Method int mbedtls_x509_write_sig(unsigned char **p, unsigned char *start,

```
....
306.      memcpy( *p, sig, len );
```

Buffer Overflow boundcpy WrongSizeParam\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=48
Status	New

The size of the buffer used by stun_parse_message in STUN_TID_BYTES, at line 82 of freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that stun_parse_message passes to STUN_TID_BYTES, at line 82 of freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	92	92
Object	STUN_TID_BYTES	STUN_TID_BYTES

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....
92.      memcpy(msg->stun_hdr.tran_id, p + 4, STUN_TID_BYTES);
```

Buffer Overflow boundcpy WrongSizeParam\Path 34:

Severity	Medium
Result State	To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=49
Status	New

The size of the buffer used by `stun_parse_attribute` in `len`, at line 114 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attribute` passes to `len`, at line 114 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	182	182
Object	<code>len</code>	<code>len</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `int stun_parse_attribute(stun_msg_t *msg, unsigned char *p)`

```
....  
182.     memcpy(attr->enc_buf.data, p, len);
```

Buffer Overflow boundcpy WrongSizeParam\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=50
Status	New

The size of the buffer used by `stun_parse_attr_buffer` in `len`, at line 270 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_buffer` passes to `len`, at line 270 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	276	276
Object	<code>len</code>	<code>len</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `int stun_parse_attr_buffer(stun_attr_t *attr, const unsigned char *p, unsigned len)`

```
....  
276.     memcpy(buf->data, p, len);
```

Buffer Overflow boundcpy WrongSizeParam\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=51
Status	New

The size of the buffer used by `stun_copy_buffer` in `p`, at line 314 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_copy_buffer` passes to `p`, at line 314 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	318	318
Object	<code>p</code>	<code>p</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `int stun_copy_buffer(stun_buffer_t *p, stun_buffer_t *p2) {`

```
....  
318.     memcpy(p->data, p2->data, p->size);
```

Buffer Overflow boundcpy WrongSizeParam\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=52
Status	New

The size of the buffer used by `stun_encode_buffer` in `a`, at line 420 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_buffer` passes to `a`, at line 420 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	429	429
Object	<code>a</code>	<code>a</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `int stun_encode_buffer(stun_attr_t *attr) {`

```
....  
429.     memcpy(attr->enc_buf.data+4, a->data, a->size);
```


Buffer Overflow boundcpy WrongSizeParam\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=53
Status	New

The size of the buffer used by `stun_validate_message_integrity` in `len`, at line 499 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_validate_message_integrity` passes to `len`, at line 499 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	529	529
Object	<code>len</code>	<code>len</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `int stun_validate_message_integrity(stun_msg_t *msg, stun_buffer_t *pwd)`

```
....  
529.     memcpy(padded_text, msg->enc_buf.data, len);
```

Buffer Overflow boundcpy WrongSizeParam\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=54
Status	New

The size of the buffer used by `stun_encode_message` in `STUN_TID_BYTES`, at line 660 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_message` passes to `STUN_TID_BYTES`, at line 660 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	724	724
Object	<code>STUN_TID_BYTES</code>	<code>STUN_TID_BYTES</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {`


```
....  
724.         memcpy(buf + 4, msg->stun_hdr.tran_id, STUN_TID_BYTES);
```

Buffer Overflow boundcpy WrongSizeParam\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=55
Status	New

The size of the buffer used by `stun_encode_message` in `attr`, at line 660 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_message` passes to `attr`, at line 660 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	733	733
Object	<code>attr</code>	<code>attr</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {`

```
....  
733.         memcpy(buf+len, (void *)attr->enc_buf.data, attr->enc_buf.size);
```

Buffer Overflow boundcpy WrongSizeParam\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=56
Status	New

The size of the buffer used by `stun_encode_message` in `msg_int`, at line 660 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_message` passes to `msg_int`, at line 660 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	746	746
Object	<code>msg_int</code>	<code>msg_int</code>

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {

.....
746. msg_int->enc_buf.size);

Buffer Overflow boundcpy WrongSizeParam\Path 42:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=57>
Status New

The size of the buffer used by `stun_parse_message` in `STUN_TID_BYTES`, at line 82 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_message` passes to `STUN_TID_BYTES`, at line 82 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	92	92
Object	STUN_TID_BYTES	STUN_TID_BYTES

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
.....  
92. memcpy(msg->stun_hdr.tran_id, p + 4, STUN_TID_BYTES);
```

Buffer Overflow boundcpy WrongSizeParam\Path 43:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=58>
Status New

The size of the buffer used by `stun_parse_attribute` in `len`, at line 114 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attribute` passes to `len`, at line 114 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	182	182
Object	len	len

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_parse_attribute(stun_msg_t *msg, unsigned char *p)

```
....  
182.      memcpy(attr->enc_buf.data, p, len);
```

Buffer Overflow boundcpy WrongSizeParam\Path 44:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=59>
Status New

The size of the buffer used by `stun_parse_attr_buffer` in `len`, at line 270 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_parse_attr_buffer` passes to `len`, at line 270 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	276	276
Object	len	len

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_parse_attr_buffer(stun_attr_t *attr, const unsigned char *p, unsigned len)

```
....  
276.      memcpy(buf->data, p, len);
```

Buffer Overflow boundcpy WrongSizeParam\Path 45:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=60>
Status New

The size of the buffer used by `stun_copy_buffer` in `p`, at line 314 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_copy_buffer` passes to `p`, at line 314 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	318	318

Object	p	p
--------	---	---

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Method int stun_copy_buffer(stun_buffer_t *p, stun_buffer_t *p2) {

```
....  
318.     memcpy(p->data, p2->data, p->size);
```

Buffer Overflow boundcpy WrongSizeParam\Path 46:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=61>

Status New

The size of the buffer used by `stun_encode_buffer` in `a`, at line 420 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_buffer` passes to `a`, at line 420 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	429	429
Object	a	a

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Method int stun_encode_buffer(stun_attr_t *attr) {

```
....  
429.     memcpy(attr->enc_buf.data+4, a->data, a->size);
```

Buffer Overflow boundcpy WrongSizeParam\Path 47:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=62>

Status New

The size of the buffer used by `stun_validate_message_integrity` in `len`, at line 499 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_validate_message_integrity` passes to `len`, at line 499 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Line	529	529
Object	len	len

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_validate_message_integrity(stun_msg_t *msg, stun_buffer_t *pwd)

```
....
529.     memcpy(padded_text, msg->enc_buf.data, len);
```

Buffer Overflow boundcpy WrongSizeParam\Path 48:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=63
Status	New

The size of the buffer used by `stun_encode_message` in `STUN_TID_BYTES`, at line 660 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_message` passes to `STUN_TID_BYTES`, at line 660 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	724	724
Object	STUN_TID_BYTES	STUN_TID_BYTES

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {

```
....
724.     memcpy(buf + 4, msg->stun_hdr.tran_id, STUN_TID_BYTES);
```

Buffer Overflow boundcpy WrongSizeParam\Path 49:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=64
Status	New

The size of the buffer used by `stun_encode_message` in `attr`, at line 660 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `stun_encode_message` passes to `attr`, at line 660 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`, to overwrite the target buffer.

Source	Destination
--------	-------------

File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	733	733
Object	attr	attr

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {

```

.....
733.         memcpy(buf+len, (void *)attr->enc_buf.data, attr-
>enc_buf.size);

```

Buffer Overflow boundcpy WrongSizeParam\Path 50:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=65
Status	New

The size of the buffer used by stun_encode_message in msg_int, at line 660 of freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that stun_encode_message passes to msg_int, at line 660 of freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c, to overwrite the target buffer.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	746	746
Object	msg_int	msg_int

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {

```

.....
746.         msg_int->enc_buf.size);

```

Wrong Size t Allocation

Query Path:

CPP\Cx\CPP Integer Overflow\Wrong Size t Allocation Version:0

[Description](#)

Wrong Size t Allocation\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=303
Status	New

The function size in FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c at line 2040 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2134	2134
Object	size	size

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....  
2134.                groupDsc = (FILEGROUPDESCRIPTORW*)malloc(size);
```

Wrong Size t Allocation\Path 2:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=304>

Status New

The function size in FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c at line 2040 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2166	2166
Object	size	size

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....  
2166.                buff = malloc(size);
```

Wrong Size t Allocation\Path 3:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=305>

Status New

The function size in FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c at line 2041 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2135	2135
Object	size	size

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....  
2135.          groupDsc = (FILEGROUPDESCRIPTORW*)malloc(size);
```

Wrong Size t Allocation\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=306>

Status New

The function size in FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c at line 2041 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2167	2167
Object	size	size

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....  
2167.          buff = malloc(size);
```

Wrong Size t Allocation\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14>

Status [&pathid=307](#)
New

The function size in FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c at line 2041 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	2135	2135
Object	size	size

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
.....  
2135.                groupDsc = (FILEGROUPDESCRIPTORW*)malloc(size);
```

Wrong Size t Allocation\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=308>

Status New

The function size in FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c at line 2041 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	2167	2167
Object	size	size

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
.....  
2167.                buff = malloc(size);
```

Wrong Size t Allocation\Path 7:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=308>

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=309
Status	New

The function `len` in `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c` at line 101 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	110	110
Object	len	len

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c

Method static BOOL redirection_copy_data(BYTE** dst, UINT32* plen, const BYTE* str, size_t len)

```
....
110.          *dst = malloc(len);
```

Wrong Size t Allocation\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=310
Status	New

The function `len` in `FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c` at line 103 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	112	112
Object	len	len

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c

Method static BOOL redirection_copy_data(BYTE** dst, UINT32* plen, const BYTE* str, size_t len)

```
....
112.          *dst = malloc(len);
```

Wrong Size t Allocation\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=311
Status	New

The function `len` in `FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c` at line 103 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	112	112
Object	len	len

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_data(BYTE** dst, UINT32* plen, const BYTE* str, size_t len)

```
....  
112.         *dst = malloc(len);
```

Wrong Size t Allocation\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=312
Status	New

The function `nSize` in `FreeRDP@@FreeRDP-2.0.0-CVE-2020-11097-TP.c` at line 228 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-11097-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-11097-TP.c
Line	238	238
Object	nSize	nSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-11097-TP.c
Method static int ntlm_get_target_computer_name(PUNICODE_STRING pName, COMPUTER_NAME_FORMAT type)

```
....  
238.         computerName = calloc(nSize, sizeof(CHAR));
```

Wrong Size t Allocation\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=313
Status	New

The function maximum_size in FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c at line 70 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	80	80
Object	maximum_size	maximum_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Method static char* rdp_info_package_flags_description(UINT32 flags)

```
....  
80.     result = calloc(maximum_size, sizeof(char));
```

Wrong Size t Allocation\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=314
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c at line 70 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	106	106
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL rdp_read_info_null_string(UINT32 flags, wStream* s, size_t cbLen, CHAR** dst,

```
....  
106. ret = calloc(cbLen + 1, nullSize);
```

Wrong Size t Allocation\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=315
Status	New

The function maximum_size in FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c at line 118 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	128	128
Object	maximum_size	maximum_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Method static char* rdp_info_package_flags_description(UINT32 flags)

```
....  
128. result = calloc(maximum_size, sizeof(char));
```

Wrong Size t Allocation\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=316
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c at line 466 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	507	507
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Method static BOOL rdp_read_info_string(UINT32 flags, wStream* s, size_t cbLenNonNull, CHAR** dst,

```
....  
507. ret = calloc(cbLenNonNull + 1, nullSize);
```

Wrong Size t Allocation\Path 15:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=317>
Status New

The function nullSize in FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp at line 70 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp
Line	106	106
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp
Method static BOOL rdp_read_info_null_string(UINT32 flags, wStream* s, size_t cbLen, CHAR** dst,

```
....  
106. ret = calloc(cbLen + 1, nullSize);
```

Wrong Size t Allocation\Path 16:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=318>
Status New

The function maximum_size in FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp at line 118 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp
Line	128	128

Object	maximum_size	maximum_size
--------	--------------	--------------

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp
Method static char* rdp_info_package_flags_description(UINT32 flags)

```
....
128.         result = calloc(maximum_size, sizeof(char));
```

Wrong Size t Allocation\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=319
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp at line 466 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp
Line	507	507
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp
Method static BOOL rdp_read_info_string(UINT32 flags, wStream* s, size_t cbLenNonNull, CHAR** dst,

```
....
507.         ret = calloc(cbLenNonNull + 1, nullSize);
```

Wrong Size t Allocation\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=320
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c at line 70 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2024-	FreeRDP@@FreeRDP-2.4.0-CVE-2024-

	32661-TP.c	32661-TP.c
Line	106	106
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c

Method static BOOL rdp_read_info_null_string(UINT32 flags, wStream* s, size_t cbLen, CHAR** dst,

```
....  
106.                ret = calloc(cbLen + 1, nullSize);
```

Wrong Size t Allocation\Path 19:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=321>

Status New

The function maximum_size in FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c at line 118 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c
Line	128	128
Object	maximum_size	maximum_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c

Method static char* rdp_info_package_flags_description(UINT32 flags)

```
....  
128.                result = calloc(maximum_size, sizeof(char));
```

Wrong Size t Allocation\Path 20:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=322>

Status New

The function nullSize in FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c at line 466 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c
Line	507	507
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c
Method static BOOL rdp_read_info_string(UINT32 flags, wStream* s, size_t cbLenNonNull, CHAR** dst,

```
....  
507.                ret = calloc(cbLenNonNull + 1, nullSize);
```

Wrong Size t Allocation\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=323
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c at line 70 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c
Line	106	106
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c
Method static BOOL rdp_read_info_null_string(UINT32 flags, wStream* s, size_t cbLen, CHAR** dst,

```
....  
106.                ret = calloc(cbLen + 1, nullSize);
```

Wrong Size t Allocation\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=324
Status	New

The function `maximum_size` in `FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c` at line 118 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c
Line	128	128
Object	maximum_size	maximum_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c

Method static char* rdp_info_package_flags_description(UINT32 flags)

```
....  
128.         result = calloc(maximum_size, sizeof(char));
```

Wrong Size t Allocation\Path 23:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=325>

Status New

The function `nullSize` in `FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c` at line 466 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c
Line	507	507
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c

Method static BOOL rdp_read_info_string(UINT32 flags, wStream* s, size_t cbLenNonNull, CHAR** dst,

```
....  
507.         ret = calloc(cbLenNonNull + 1, nullSize);
```

Wrong Size t Allocation\Path 24:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=326>

Status New

The function nullSize in FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c at line 70 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c
Line	106	106
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c

Method static BOOL rdp_read_info_null_string(UINT32 flags, wStream* s, size_t cbLen, CHAR** dst,

```
.....  
106.          ret = calloc(cbLen + 1, nullSize);
```

Wrong Size t Allocation\Path 25:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=327>

Status New

The function maximum_size in FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c at line 118 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c
Line	128	128
Object	maximum_size	maximum_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c

Method static char* rdp_info_package_flags_description(UINT32 flags)

```
.....  
128.          result = calloc(maximum_size, sizeof(char));
```

Wrong Size t Allocation\Path 26:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=327>

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=328
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c at line 466 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c
Line	507	507
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c

Method static BOOL rdp_read_info_string(UINT32 flags, wStream* s, size_t cbLenNonNull, CHAR** dst,

```
.....
507.                ret = calloc(cbLenNonNull + 1, nullSize);
```

Wrong Size t Allocation\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=329
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c at line 72 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c
Line	108	108
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c

Method static BOOL rdp_read_info_null_string(UINT32 flags, wStream* s, size_t cbLen, CHAR** dst,

```
.....
108.                ret = calloc(cbLen + 1, nullSize);
```

Wrong Size t Allocation\Path 28:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=330
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c at line 459 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c
Line	500	500
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c
Method static BOOL rdp_read_info_string(UINT32 flags, wStream* s, size_t cbLenNonNull, CHAR** dst,

```
....  
500.                                ret = calloc(cbLenNonNull + 1, nullSize);
```

Wrong Size t Allocation\Path 29:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=331
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c at line 72 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c
Line	108	108
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c
Method static BOOL rdp_read_info_null_string(UINT32 flags, wStream* s, size_t cbLen, CHAR** dst,

```
....  
108.                ret = calloc(cbLen + 1, nullSize);
```

Wrong Size t Allocation\Path 30:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=332
Status	New

The function nullSize in FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c at line 459 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c
Line	500	500
Object	nullSize	nullSize

Code Snippet

File Name FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c
Method static BOOL rdp_read_info_string(UINT32 flags, wStream* s, size_t cbLenNonNull, CHAR** dst,

```
....  
500.                ret = calloc(cbLenNonNull + 1, nullSize);
```

Wrong Size t Allocation\Path 31:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=333
Status	New

The function len in FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c at line 118 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	125	125
Object	len	len

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_array(char*** dst, UINT32* plen, const char** str, size_t len)

```
....  
125.          *dst = calloc(len, sizeof(char));
```

Wrong Size t Allocation\Path 32:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=334>
Status New

The function utf8_len in FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c at line 243 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	262	262
Object	utf8_len	utf8_len

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,

```
....  
262.          *pData = calloc(utf8_len, sizeof(BYTE));
```

Wrong Size t Allocation\Path 33:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=335>
Status New

The function len in FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c at line 120 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	127	127

Object	len	len
--------	-----	-----

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_array(char*** dst, UINT32* plen, const char** str, size_t len)

```
....
127.         *dst = calloc(len, sizeof(char));
```

Wrong Size t Allocation\Path 34:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=336
Status	New

The function utf8_len in FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c at line 245 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	264	264
Object	utf8_len	utf8_len

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,

```
....
264.         *pData = calloc(utf8_len, sizeof(BYTE));
```

Wrong Size t Allocation\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=337
Status	New

The function len in FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c at line 120 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	127	127
Object	len	len

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c

Method static BOOL redirection_copy_array(char*** dst, UINT32* plen, const char** str, size_t len)

```
....  
127.          *dst = calloc(len, sizeof(char*));
```

Wrong Size t Allocation\Path 36:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=338>

Status New

The function utf8_len in FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c at line 234 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	253	253
Object	utf8_len	utf8_len

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c

Method static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,

```
....  
253.          *pData = calloc(utf8_len, sizeof(BYTE));
```

Wrong Size t Allocation\Path 37:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=339>

Status New

The function `address_size` in `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c` at line 763 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	786	786
Object	address_size	address_size

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `char *stun_determine_ip_address(int family)`

```
....  
786.      local_ip_address = malloc(address_size + 1);
```

Wrong Size t Allocation\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=340
Status	New

The function `address_size` in `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c` at line 763 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	786	786
Object	address_size	address_size

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`
Method `char *stun_determine_ip_address(int family)`

```
....  
786.      local_ip_address = malloc(address_size + 1);
```

Wrong Size t Allocation\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=341
Status	New

The function `address_size` in `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c` at line 763 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Line	786	786
Object	address_size	address_size

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`
Method `char *stun_determine_ip_address(int family)`

```
....  
786.     local_ip_address = malloc(address_size + 1);
```

Wrong Size t Allocation\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=342
Status	New

The function `address_size` in `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c` at line 763 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	786	786
Object	address_size	address_size

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c`
Method `char *stun_determine_ip_address(int family)`

```
....  
786.     local_ip_address = malloc(address_size + 1);
```

Wrong Size t Allocation\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=343

Status New

The function `address_size` in `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c` at line 763 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Line	786	786
Object	address_size	address_size

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c

Method char *stun_determine_ip_address(int family)

```
....  
786.     local_ip_address = malloc(address_size + 1);
```

Wrong Size t Allocation\Path 42:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=344>

Status New

The function `new_size` in `FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c` at line 1136 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1147	1147
Object	new_size	new_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method static void map_ensure_capacity(wfClipboard* clipboard)

```
....  
1147.     (formatMapping*) realloc(clipboard->format_mappings, sizeof(formatMapping) * new_size);
```

Wrong Size t Allocation\Path 43:

Severity Medium

Result State To Verify

Online Results <http://WIN->

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=345
Status	New

The function new_size in FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c at line 1696 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1708	1708
Object	new_size	new_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
....
1708.                                     new_size *
sizeof(FILEDESCRIPTORW));
```

Wrong Size t Allocation\Path 44:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=346
Status	New

The function new_size in FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c at line 1696 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1713	1713
Object	new_size	new_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
....
1713.             new_name = (WCHAR**) realloc(clipboard->file_names,
new_size * sizeof(WCHAR));
```

Wrong Size t Allocation\Path 45:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=347
Status	New

The function `new_size` in `FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c` at line 1136 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1147	1147
Object	<code>new_size</code>	<code>new_size</code>

Code Snippet

File Name `FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c`
Method `static void map_ensure_capacity(wfClipboard* clipboard)`

```
....  
1147.                (formatMapping*) realloc(clipboard->  
>format_mappings, sizeof(formatMapping) * new_size);
```

Wrong Size t Allocation\Path 46:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=348
Status	New

The function `new_size` in `FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c` at line 1697 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1709	1709
Object	<code>new_size</code>	<code>new_size</code>

Code Snippet

File Name `FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c`
Method `static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)`

```
.....
1709.                                     new_size *
sizeof(FILEDESCRIPTORW*));
```

Wrong Size t Allocation\Path 47:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=349
Status	New

The function new_size in FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c at line 1697 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1714	1714
Object	new_size	new_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
.....
1714.             new_name = (WCHAR**) realloc(clipboard->file_names,
new_size * sizeof(WCHAR*));
```

Wrong Size t Allocation\Path 48:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=350
Status	New

The function new_size in FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c at line 1136 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1147	1147
Object	new_size	new_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static void map_ensure_capacity(wfClipboard* clipboard)

```
....
1147.                (formatMapping*) realloc(clipboard-
>format_mappings, sizeof(formatMapping) * new_size);
```

Wrong Size t Allocation\Path 49:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=351>
Status New

The function new_size in FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c at line 1697 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1709	1709
Object	new_size	new_size

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
....
1709.                new_size *
sizeof(FILEDESCRIPTORW));
```

Wrong Size t Allocation\Path 50:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=352>
Status New

The function new_size in FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c at line 1697 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1714	1714

Object	new_size	new_size
--------	----------	----------

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
....
1714.             new_name = (WCHAR**) realloc(clipboard->file_names,
new_size * sizeof(WCHAR*));
```

Use of a One Way Hash without a Salt

Query Path:

CPP\Cx\CPP Medium Threat\Use of a One Way Hash without a Salt Version:1

Categories

FISMA 2014: Media Protection

NIST SP 800-53: SC-13 Cryptographic Protection (P1)

Description

Use of a One Way Hash without a Salt\Path 1:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1046>

Status New

The application protects passwords with HMAC in stun_encode_message_integrity, of freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c at line 434, using a cryptographic hash padded_text. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	455	455
Object	padded_text	HMAC

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c

Method int stun_encode_message_integrity(stun_attr_t *attr,

```
....
455.             sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 2:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1047>

Status New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `buf`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	733	455
Object	<code>buf</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
 Method `int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {`

```
....
733.      memcpy(buf+len, (void *)attr->enc_buf.data, attr-
>enc_buf.size);
```

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
 Method `int stun_encode_message_integrity(stun_attr_t *attr,`

```
....
455.      sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1048
Status	New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `buf`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	458	458
Object	<code>buf</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
 Method `int stun_encode_message_integrity(stun_attr_t *attr,`

```
....
458.      sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size, buf, len,
NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1049
Status	New

The application protects passwords with HMAC in `stun_validate_message_integrity`, of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c` at line 499, using a cryptographic hash `padded_text`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c</code>
Line	531	531
Object	<code>padded_text</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`
Method `int stun_validate_message_integrity(stun_msg_t *msg, stun_buffer_t *pwd)`

```
....
531.      memcpy(dig, HMAC(EVP_sha1(), pwd->data, pwd->size, padded_text,
padded_len, NULL, &dig_len), 20);
```

Use of a One Way Hash without a Salt\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1050
Status	New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `padded_text`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	455	455
Object	<code>padded_text</code>	HMAC

Code Snippet**File Name** freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c**Method** int stun_encode_message_integrity(stun_attr_t *attr,

```
....
455.          sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 6:**Severity** Medium**Result State** To Verify**Online Results** <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1051>**Status** New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash buf. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	733	455
Object	buf	HMAC

Code Snippet**File Name** freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c**Method** int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {

```
....
733.          memcpy(buf+len, (void *)attr->enc_buf.data, attr-
>enc_buf.size);
```

**File Name** freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c**Method** int stun_encode_message_integrity(stun_attr_t *attr,

```
....
455.          sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 7:**Severity** Medium**Result State** To Verify**Online Results** <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1052>**Status** New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `buf`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	458	458
Object	<code>buf</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`

Method `int stun_encode_message_integrity(stun_attr_t *attr,`

```
....  
458.     sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size, buf, len,  
NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 8:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1053>

Status New

The application protects passwords with HMAC in `stun_validate_message_integrity`, of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c` at line 499, using a cryptographic hash `padded_text`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	531	531
Object	<code>padded_text</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`

Method `int stun_validate_message_integrity(stun_msg_t *msg, stun_buffer_t *pwd)`

```
....  
531.     memcpy(dig, HMAC(EVP_sha1(), pwd->data, pwd->size, padded_text,  
padded_len, NULL, &dig_len), 20);
```

Use of a One Way Hash without a Salt\Path 9:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14>

Status [&pathid=1054](#)
New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `padded_text`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>
Line	455	455
Object	<code>padded_text</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`

Method `int stun_encode_message_integrity(stun_attr_t *attr,`

```
.....
455.         sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 10:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1055>

Status New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `buf`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>
Line	733	455
Object	<code>buf</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`

Method `int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {`

```
.....
733.         memcpy(buf+len, (void *)attr->enc_buf.data, attr-
>enc_buf.size);
```

File Name `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`

Method int stun_encode_message_integrity(stun_attr_t *attr,

```
....
455.      sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1056
Status	New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `buf`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>
Line	458	458
Object	<code>buf</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`
Method int stun_encode_message_integrity(stun_attr_t *attr,

```
....
458.      sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size, buf, len,
NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1057
Status	New

The application protects passwords with HMAC in `stun_validate_message_integrity`, of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c` at line 499, using a cryptographic hash `padded_text`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>
Line	531	531
Object	<code>padded_text</code>	HMAC

Code Snippet**File Name** freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c**Method** int stun_validate_message_integrity(stun_msg_t *msg, stun_buffer_t *pwd)

```
....  
531.     memcpy(dig, HMAC(EVP_sha1(), pwd->data, pwd->size, padded_text,  
padded_len, NULL, &dig_len), 20);
```

Use of a One Way Hash without a Salt\Path 13:**Severity** Medium**Result State** To Verify**Online Results** <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1058>**Status** New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `padded_text`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	455	455
Object	padded_text	HMAC

Code Snippet**File Name** freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c**Method** int stun_encode_message_integrity(stun_attr_t *attr,

```
....  
455.     sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,  
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 14:**Severity** Medium**Result State** To Verify**Online Results** <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1059>**Status** New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `buf`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c

Line	733	455
Object	buf	HMAC

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Method int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {

```
....  
733.      memcpy(buf+len, (void *)attr->enc_buf.data, attr->enc_buf.size);
```

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Method int stun_encode_message_integrity(stun_attr_t *attr,

```
....  
455.      sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,  
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 15:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1060>
Status New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `buf`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	458	458
Object	buf	HMAC

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Method int stun_encode_message_integrity(stun_attr_t *attr,

```
....  
458.      sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size, buf, len,  
NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 16:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1060>

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1061
Status	New

The application protects passwords with HMAC in `stun_validate_message_integrity`, of `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c` at line 499, using a cryptographic hash `padded_text`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c</code>
Line	531	531
Object	<code>padded_text</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c`

Method `int stun_validate_message_integrity(stun_msg_t *msg, stun_buffer_t *pwd)`

```
....
531.     memcpy(dig, HMAC(EVP_sha1(), pwd->data, pwd->size, padded_text,
padded_len, NULL, &dig_len), 20);
```

Use of a One Way Hash without a Salt\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1062
Status	New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `padded_text`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c</code>
Line	455	455
Object	<code>padded_text</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`

Method `int stun_encode_message_integrity(stun_attr_t *attr,`

```
....
455.     sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1063
Status	New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `buf`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c</code>
Line	733	455
Object	<code>buf</code>	HMAC

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`
 Method `int stun_encode_message(stun_msg_t *msg, stun_buffer_t *pwd) {`

```
....
733.         memcpy(buf+len, (void *)attr->enc_buf.data, attr-
>enc_buf.size);
```

File Name `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c`
 Method `int stun_encode_message_integrity(stun_attr_t *attr,`

```
....
455.         sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size,
padded_text, padded_len, NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1064
Status	New

The application protects passwords with HMAC in `stun_encode_message_integrity`, of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c` at line 434, using a cryptographic hash `buf`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c</code>
Line	458	458

Object	buf	HMAC
--------	-----	------

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c

Method int stun_encode_message_integrity(stun_attr_t *attr,

```
....
458.     sha1_hmac = HMAC(EVP_sha1(), pwd->data, pwd->size, buf, len,
NULL, &dig_len);
```

Use of a One Way Hash without a Salt\Path 20:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1065>

Status New

The application protects passwords with HMAC in `stun_validate_message_integrity`, of `freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c` at line 499, using a cryptographic hash `padded_text`. However, the code does not salt the hash with an unpredictable, random value, allowing an attacker to reverse the hash value.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Line	531	531
Object	padded_text	HMAC

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c

Method int stun_validate_message_integrity(stun_msg_t *msg, stun_buffer_t *pwd)

```
....
531.     memcpy(dig, HMAC(EVP_sha1(), pwd->data, pwd->size, padded_text,
padded_len, NULL, &dig_len), 20);
```

Heap Inspection

Query Path:

CPP\Cx\CPP Medium Threat\Heap Inspection Version:1

Categories

OWASP Top 10 2013: A6-Sensitive Data Exposure

FISMA 2014: Media Protection

NIST SP 800-53: SC-4 Information in Shared Resources (P1)

OWASP Top 10 2017: A3-Sensitive Data Exposure

Description

Heap Inspection\Path 1:

Severity Medium

Result State To Verify

Online Results <http://WIN->

[PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=900](http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=900)

Status New

Method `rdp_write_info_packet` at line 721 of `FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c` defines `cbPassword`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `cbPassword`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	730	730
Object	cbPassword	cbPassword

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c

Method static BOOL `rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
730.          UINT16 cbPassword = 0;
```

Heap Inspection\Path 2:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=901>

Status New

Method `rdp_write_info_packet` at line 609 of `FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c` defines `cbPassword`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `cbPassword`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	618	618
Object	cbPassword	cbPassword

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c

Method static BOOL `rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
618.          UINT16 cbPassword = 0;
```

Heap Inspection\Path 3:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14>

Status [&pathid=902](#)
New

Method `rdp_write_info_packet` at line 609 of `FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp` defines `cbPassword`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `cbPassword`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp
Line	618	618
Object	cbPassword	cbPassword

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp

Method static BOOL `rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
618.          UINT16 cbPassword = 0;
```

Heap Inspection\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=903>

Status New

Method `rdp_write_info_packet` at line 609 of `FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c` defines `cbPassword`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `cbPassword`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c
Line	618	618
Object	cbPassword	cbPassword

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c

Method static BOOL `rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
618.          UINT16 cbPassword = 0;
```

Heap Inspection\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=904>

Status New

Method rdp_write_info_packet at line 609 of FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c defines cbPassword, which is designated to contain user passwords. However, while plaintext passwords are later assigned to cbPassword, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c
Line	618	618
Object	cbPassword	cbPassword

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
618.          UINT16 cbPassword = 0;
```

Heap Inspection\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=905>

Status New

Method rdp_write_info_packet at line 609 of FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c defines cbPassword, which is designated to contain user passwords. However, while plaintext passwords are later assigned to cbPassword, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c
Line	618	618
Object	cbPassword	cbPassword

Code Snippet

File Name FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c

Method static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)

```
....  
618.          UINT16 cbPassword = 0;
```

Heap Inspection\Path 7:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=906>

Status New

Method `rdp_write_info_packet` at line 602 of `FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c` defines `cbPassword`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `cbPassword`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c
Line	611	611
Object	cbPassword	cbPassword

Code Snippet

File Name `FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
611.          UINT16 cbPassword = 0;
```

Heap Inspection\Path 8:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=907>
Status New

Method `rdp_write_info_packet` at line 602 of `FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c` defines `cbPassword`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `cbPassword`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c
Line	611	611
Object	cbPassword	cbPassword

Code Snippet

File Name `FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
611.          UINT16 cbPassword = 0;
```

Heap Inspection\Path 9:

Severity Medium
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=908>
Status New

Method `rdp_write_info_packet` at line 721 of `FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c` defines `passwordW`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `passwordW`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c
Line	729	729
Object	passwordW	passwordW

Code Snippet

File Name `FreeRDP@@FreeRDP-2.0.0-CVE-2024-32661-TP.c`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
729.          WCHAR* passwordW = NULL;
```

Heap Inspection\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=909
Status	New

Method `rdp_write_info_packet` at line 609 of `FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c` defines `passwordW`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `passwordW`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c
Line	617	617
Object	passwordW	passwordW

Code Snippet

File Name `FreeRDP@@FreeRDP-2.2.0-CVE-2024-32661-TP.c`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
617.          WCHAR* passwordW = NULL;
```

Heap Inspection\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=910
Status	New

Method `rdp_write_info_packet` at line 609 of `FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp` defines `passwordW`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `passwordW`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp	FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp
Line	617	617
Object	passwordW	passwordW

Code Snippet

File Name `FreeRDP@@FreeRDP-2.3.0-CVE-2024-32661-TP.cpp`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
617.          WCHAR* passwordW = NULL;
```

Heap Inspection\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=911
Status	New

Method `rdp_write_info_packet` at line 609 of `FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c` defines `passwordW`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `passwordW`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c
Line	617	617
Object	passwordW	passwordW

Code Snippet

File Name `FreeRDP@@FreeRDP-2.4.0-CVE-2024-32661-TP.c`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
617.          WCHAR* passwordW = NULL;
```

Heap Inspection\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=912
Status	New

Method `rdp_write_info_packet` at line 609 of `FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c` defines `passwordW`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `passwordW`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c
Line	617	617
Object	passwordW	passwordW

Code Snippet

File Name `FreeRDP@@FreeRDP-2.5.0-CVE-2024-32661-TP.c`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
617.          WCHAR* passwordW = NULL;
```

Heap Inspection\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=913
Status	New

Method `rdp_write_info_packet` at line 609 of `FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c` defines `passwordW`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `passwordW`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c
Line	617	617
Object	passwordW	passwordW

Code Snippet

File Name `FreeRDP@@FreeRDP-2.7.0-CVE-2024-32661-TP.c`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
617.          WCHAR* passwordW = NULL;
```

Heap Inspection\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=914
Status	New

Method `rdp_write_info_packet` at line 602 of `FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c` defines `passwordW`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `passwordW`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c
Line	610	610
Object	passwordW	passwordW

Code Snippet

File Name `FreeRDP@@FreeRDP-2.8.0-CVE-2024-32661-TP.c`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
610.          WCHAR* passwordW = NULL;
```

Heap Inspection\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=915
Status	New

Method `rdp_write_info_packet` at line 602 of `FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c` defines `passwordW`, which is designated to contain user passwords. However, while plaintext passwords are later assigned to `passwordW`, this variable is never cleared from memory.

	Source	Destination
File	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c	FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c
Line	610	610
Object	passwordW	passwordW

Code Snippet

File Name `FreeRDP@@FreeRDP-2.9.0-CVE-2024-32661-TP.c`
Method `static BOOL rdp_write_info_packet(rdpRdp* rdp, wStream* s)`

```
....  
610.          WCHAR* passwordW = NULL;
```

Char Overflow

Query Path:

CPP\Cx\CPP Integer Overflow\Char Overflow Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows
NIST SP 800-53: SI-10 Information Input Validation (P1)

Description

Char Overflow\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=369
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 486 of FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Line	503	503
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Method static void fips_expand_key_bits(BYTE* in, BYTE* out)

```
....  
503.                                out[i] = (buf[p] << r) & 0xfe;
```

Char Overflow\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=370
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 486 of FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Line	508	508
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Method static void fips_expand_key_bits(BYTE* in, BYTE* out)

```
....  
508.                                c = buf[p] << r;
```

Char Overflow\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=371
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 486 of FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Line	509	509
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Method static void fips_expand_key_bits(BYTE* in, BYTE* out)

```
....  
509.                c |= buf[p + 1] >> (8 - r);
```

Char Overflow\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=372
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 114 of FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c
Line	155	155
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2023-39354-TP.c
Method static BOOL nsc_rle_decode(BYTE* in, BYTE* out, UINT32 outSize, UINT32 originalSize)

```
....  
155.                out += len;
```

Char Overflow\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=373
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 114 of FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c
Line	155	155
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2023-39354-TP.c
Method static BOOL nsc_rle_decode(BYTE* in, BYTE* out, UINT32 outSize, UINT32 originalSize)

```
....  
155.                out += len;
```

Char Overflow\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=374
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 114 of FreeRDP@@FreeRDP-2.3.0-CVE-2023-39354-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2023-39354-TP.c
Line	155	155
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2023-39354-TP.c
Method static BOOL nsc_rle_decode(BYTE* in, BYTE* out, UINT32 outSize, UINT32 originalSize)

```
....  
155.                out += len;
```

Char Overflow\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=375
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 114 of FreeRDP@@FreeRDP-2.4.0-CVE-2023-39354-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.4.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.4.0-CVE-2023-39354-TP.c
Line	155	155
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.4.0-CVE-2023-39354-TP.c
Method static BOOL nsc_rle_decode(BYTE* in, BYTE* out, UINT32 outSize, UINT32 originalSize)

```
....  
155. out += len;
```

Char Overflow\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=376
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 114 of FreeRDP@@FreeRDP-2.5.0-CVE-2023-39354-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.5.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.5.0-CVE-2023-39354-TP.c
Line	155	155
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.5.0-CVE-2023-39354-TP.c
Method static BOOL nsc_rle_decode(BYTE* in, BYTE* out, UINT32 outSize, UINT32 originalSize)

```
....  
155. out += len;
```


Char Overflow\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=377
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 114 of FreeRDP@@FreeRDP-2.7.0-CVE-2023-39354-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.7.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.7.0-CVE-2023-39354-TP.c
Line	155	155
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.7.0-CVE-2023-39354-TP.c
Method static BOOL nsc_rle_decode(BYTE* in, BYTE* out, UINT32 outSize, UINT32 originalSize)

```
....  
155.                out += len;
```

Char Overflow\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=378
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 114 of FreeRDP@@FreeRDP-2.8.0-CVE-2023-39354-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.8.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.8.0-CVE-2023-39354-TP.c
Line	155	155
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.8.0-CVE-2023-39354-TP.c
Method static BOOL nsc_rle_decode(BYTE* in, BYTE* out, UINT32 outSize, UINT32 originalSize)

```
.....
155.                out += len;
```

Char Overflow\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=379
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 114 of FreeRDP@@FreeRDP-2.9.0-CVE-2023-39354-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-2.9.0-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-2.9.0-CVE-2023-39354-TP.c
Line	155	155
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-2.9.0-CVE-2023-39354-TP.c
Method static BOOL nsc_rle_decode(BYTE* in, BYTE* out, UINT32 outSize, UINT32 originalSize)

```
.....
155.                out += len;
```

Char Overflow\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=380
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 115 of FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-39354-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-39354-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-39354-TP.c
Line	156	156
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-39354-TP.c

Method static BOOL nsc_rle_decode(BYTE* in, BYTE* out, UINT32 outSize, UINT32 originalSize)

```
....
156. out += len;
```

Divide By Zero

Query Path:

CPP\Cx\CPP Medium Threat\Divide By Zero Version:1

[Description](#)

Divide By Zero\Path 1:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=13>

Status New

The application performs an illegal operation in xQueueGenericCreate, in FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c. In line 382, the program attempts to divide by uxItemSize, which might be evaluate to 0 (zero) at time of division. This value could be a hard-coded zero value, or received from external, untrusted input uxItemSize in xQueueGenericCreate of FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c, at line 382.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Line	398	398
Object	uxItemSize	uxItemSize

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c

Method QueueHandle_t xQueueGenericCreate(const UBaseType_t uxQueueLength,

```
....
398. configASSERT( ( uxItemSize == 0 ) || ( uxQueueLength == (
xQueueSizeInBytes / uxItemSize ) ) );
```

Divide By Zero\Path 2:

Severity Medium

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=14>

Status New

The application performs an illegal operation in xQueueGenericCreate, in FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c. In line 382, the program attempts to divide by uxItemSize, which might be evaluate to 0 (zero) at time of division. This value could be a hard-coded zero value, or received from external, untrusted input uxItemSize in xQueueGenericCreate of FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c, at line 382.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Line	398	398
Object	uxItemSize	uxItemSize

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method QueueHandle_t xQueueGenericCreate(const UBaseType_t uxQueueLength,

```
....
398.          configASSERT( ( uxItemSize == 0 ) || ( uxQueueLength == (
xQueueSizeInBytes / uxItemSize ) ) );
```

Divide By Zero\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=15
Status	New

The application performs an illegal operation in xQueueGenericCreate, in FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c. In line 382, the program attempts to divide by uxItemSize, which might be evaluate to 0 (zero) at time of division. This value could be a hard-coded zero value, or received from external, untrusted input uxItemSize in xQueueGenericCreate of FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c, at line 382.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Line	398	398
Object	uxItemSize	uxItemSize

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method QueueHandle_t xQueueGenericCreate(const UBaseType_t uxQueueLength,

```
....
398.          configASSERT( ( uxItemSize == 0 ) || ( uxQueueLength == (
xQueueSizeInBytes / uxItemSize ) ) );
```

Integer Overflow

Query Path:

CPP\Cx\CPP Integer Overflow\Integer Overflow Version:0

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows
FISMA 2014: System And Information Integrity

NIST SP 800-53: SI-10 Information Input Validation (P1)

Description

Integer Overflow\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=381
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 915 of FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	1023	1023
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
 Method BOOL rdp_write_enhanced_security_redirection_packet(wStream* s, const rdpRedirection* redirection)

```
....
1023.                length += (UINT32)rcc;
```

Integer Overflow\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=382
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 942 of FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	1050	1050
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
 Method BOOL rdp_write_enhanced_security_redirection_packet(wStream* s, const rdpRedirection* redirection)

```
....
1050.                                length += (UINT32) rcc;
```

Integer Overflow\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=383
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 930 of FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	1038	1038
Object	AssignExpr	AssignExpr

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
 Method BOOL rdp_write_enhanced_security_redirection_packet(wStream* s, const rdpRedirection* redirection)

```
....
1038.                                length += (UINT32) rcc;
```

Unchecked Return Value

Query Path:

CPP\Cx\CPP Low Visibility\Unchecked Return Value Version:1

Categories

NIST SP 800-53: SI-11 Error Handling (P2)

Description

Unchecked Return Value\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1194
Status	New

The general_name_type_label method calls the sprintf function, at line 346 of FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c
Line	356	356
Object	sprintf	sprintf

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c

Method static const char* general_name_type_label(int general_name_type)

```
....  
356.          sprintf(buffer, "Unknown general name type (%d)",  
general_name_type);
```

Unchecked Return Value\Path 2:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1195>

Status New

The wf_clipdr_get_file_descriptor method calls the wcscpy_s function, at line 1664 of FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1691	1691
Object	wcscpy_s	wcscpy_s

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method static FILEDESCRIPTORW* wf_clipdr_get_file_descriptor(WCHAR* file_name, size_t pathLen)

```
....  
1691.          wcscpy_s(fd->cFileName, sizeof(fd->cFileName) / 2, file_name  
+ pathLen);
```

Unchecked Return Value\Path 3:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1196>

Status New

The `wf_clipdr_add_to_file_arrays` method calls the `wscpy_s` function, at line 1727 of `FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1739	1739
Object	wscpy_s	wscpy_s

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_add_to_file_arrays(wfClipboard* clipboard, WCHAR* full_file_name,

```
....  
1739.      wscpy_s(clipboard->file_names[clipboard->nFiles], MAX_PATH,  
full_file_name);
```

Unchecked Return Value\Path 4:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1197>

Status New

The `wf_clipdr_get_file_descriptor` method calls the `wscpy_s` function, at line 1665 of `FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1692	1692
Object	wscpy_s	wscpy_s

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method static FILEDESCRIPTORW* wf_clipdr_get_file_descriptor(WCHAR* file_name, size_t pathLen)

```
....  
1692.      wscpy_s(fd->cFileName, sizeof(fd->cFileName) / 2, file_name  
+ pathLen);
```

Unchecked Return Value\Path 5:

Severity Low

Result State To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1198
Status	New

The `wf_clipdr_add_to_file_arrays` method calls the `wcscpy_s` function, at line 1728 of `FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1740	1740
Object	wcscpy_s	wcscpy_s

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_add_to_file_arrays(wfClipboard* clipboard, WCHAR* full_file_name,

```
....  
1740.         wcscpy_s(clipboard->file_names[clipboard->nFiles], MAX_PATH,  
full_file_name);
```

Unchecked Return Value\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1199
Status	New

The `wf_clipdr_get_file_descriptor` method calls the `wcscpy_s` function, at line 1665 of `FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1692	1692
Object	wcscpy_s	wcscpy_s

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Method static FILEDESCRIPTORW* wf_clipdr_get_file_descriptor(WCHAR* file_name, size_t pathLen)

```
....  
1692.          wscpy_s(fd->cFileName, sizeof(fd->cFileName) / 2, file_name  
+ pathLen);
```

Unchecked Return Value\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1200
Status	New

The `wf_clipdr_add_to_file_arrays` method calls the `wscpy_s` function, at line 1728 of `FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1740	1740
Object	wscpy_s	wscpy_s

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static BOOL wf_clipdr_add_to_file_arrays(wfClipboard* clipboard, WCHAR* full_file_name,

```
....  
1740.          wscpy_s(clipboard->file_names[clipboard->nFiles], MAX_PATH,  
full_file_name);
```

Unchecked Return Value\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1201
Status	New

The `crypto_cert_get_public_key` method calls the `Pointer` function, at line 53 of `FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c
Line	78	78
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c

Method BOOL crypto_cert_get_public_key(CryptoCert cert, BYTE** PublicKey, DWORD* PublicKeyLength)

```
....  
78.    *PublicKey = (BYTE*)malloc(length);
```

Unchecked Return Value\Path 9:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1202>

Status New

The crypto_cert_get_dns_names method calls the Pointer function, at line 734 of FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c
Line	752	752
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c

Method char** crypto_cert_get_dns_names(X509* x509, int* count, int** lengths)

```
....  
752.    (*lengths) = calloc(list.count, sizeof(**lengths));
```

Unchecked Return Value\Path 10:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1203>

Status New

The wf_clipdr_server_format_data_request method calls the wFileName function, at line 2040 of FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2124	2124

Object	wFileName	wFileName
--------	-----------	-----------

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....
2124.                                     wFileName = (LPWSTR) calloc (cchWideChar,
sizeof (WCHAR) );
```

Unchecked Return Value\Path 11:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1204>

Status New

The wf_clipdr_server_format_data_request method calls the buff function, at line 2040 of FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	2166	2166
Object	buff	buff

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....
2166.                                     buff = malloc (size);
```

Unchecked Return Value\Path 12:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1205>

Status New

The wf_clipdr_server_format_data_request method calls the wFileName function, at line 2041 of FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Line	2125	2125
Object	wFileName	wFileName

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....
2125.                                     wFileName = (LPWSTR) calloc (cchWideChar,
sizeof (WCHAR) );
```

Unchecked Return Value\Path 13:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1206>

Status New

The wf_clipdr_server_format_data_request method calls the buff function, at line 2041 of FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	2167	2167
Object	buff	buff

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....
2167.                                     buff = malloc (size);
```

Unchecked Return Value\Path 14:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1207>

Status New

The wf_clipdr_server_format_data_request method calls the wFileName function, at line 2041 of FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	2125	2125
Object	wFileName	wFileName

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....  
2125.                                     wFileName = (LPWSTR) calloc(cchWideChar,  
sizeof(WCHAR));
```

Unchecked Return Value\Path 15:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1208>

Status New

The wf_clipdr_server_format_data_request method calls the buff function, at line 2041 of FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	2167	2167
Object	buff	buff

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Method wf_clipdr_server_format_data_request(ClipdrClientContext* context,

```
....  
2167.                                     buff = malloc(size);
```

Unchecked Return Value\Path 16:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1209>

Status New

The redirection_copy_data method calls the Pointer function, at line 101 of FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	110	110
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_data(BYTE** dst, UINT32* plen, const BYTE* str, size_t len)

```
....  
110.          *dst = malloc(len);
```

Unchecked Return Value\Path 17:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1210>
Status New

The redirection_copy_array method calls the Pointer function, at line 118 of FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	125	125
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_array(char*** dst, UINT32* plen, const char** str, size_t len)

```
....  
125.          *dst = calloc(len, sizeof(char));
```

Unchecked Return Value\Path 18:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1211>
Status New

The `rdp_redirection_read_base64_wchar` method calls the Pointer function, at line 243 of `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	262	262
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,

```
....  
262.          *pData = calloc(utf8_len, sizeof(BYTE));
```

Unchecked Return Value\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1212
Status	New

The `rdp_redirection_read_data` method calls the Pointer function, at line 623 of `FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	632	632
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_data(UINT32 flag, wStream* s, UINT32* pLength, BYTE** pData)

```
....  
632.          *pData = (BYTE*)malloc(*pLength);
```

Unchecked Return Value\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14

Status [&pathid=1213](#)
New

The redirection_copy_data method calls the Pointer function, at line 103 of FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	112	112
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_data(BYTE** dst, UINT32* plen, const BYTE* str, size_t len)

```
....  
112.         *dst = malloc(len);
```

Unchecked Return Value\Path 21:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1214>
Status New

The redirection_copy_array method calls the Pointer function, at line 120 of FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	127	127
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_array(char*** dst, UINT32* plen, const char** str, size_t len)

```
....  
127.         *dst = calloc(len, sizeof(char));
```

Unchecked Return Value\Path 22:

Severity Low

Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1215
Status	New

The `rdp_redirection_read_base64_wchar` method calls the Pointer function, at line 245 of `FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	264	264
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,

```
....  
264.          *pData = calloc(utf8_len, sizeof(BYTE));
```

Unchecked Return Value\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1216
Status	New

The `rdp_redirection_read_data` method calls the Pointer function, at line 637 of `FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	646	646
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_data(UINT32 flag, wStream* s, UINT32* pLength, BYTE** pData)

```
....  
646.          *pData = (BYTE*)malloc(*pLength);
```

Unchecked Return Value\Path 24:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1217
Status	New

The redirection_copy_data method calls the Pointer function, at line 103 of FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	112	112
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_data(BYTE** dst, UINT32* plen, const BYTE* str, size_t len)

```
....  
112.         *dst = malloc(len);
```

Unchecked Return Value\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1218
Status	New

The redirection_copy_array method calls the Pointer function, at line 120 of FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	127	127
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Method static BOOL redirection_copy_array(char*** dst, UINT32* plen, const char** str, size_t len)

```
....  
127.          *dst = calloc(len, sizeof(char*));
```

Unchecked Return Value\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1219
Status	New

The `rdp_redirection_read_base64_wchar` method calls the Pointer function, at line 234 of `FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	253	253
Object	Pointer	Pointer

Code Snippet

File Name `FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c`
Method `static BOOL rdp_redirection_read_base64_wchar(UINT32 flag, wStream* s, UINT32* pLength,`

```
....  
253.          *pData = calloc(utf8_len, sizeof(BYTE));
```

Unchecked Return Value\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1220
Status	New

The `rdp_redirection_read_data` method calls the Pointer function, at line 625 of `FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	634	634
Object	Pointer	Pointer

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Method static BOOL rdp_redirection_read_data(UINT32 flag, wStream* s, UINT32* pLength, BYTE** pData)

```
....  
634.          *pData = (BYTE*)malloc(*pLength);
```

Unchecked Return Value\Path 28:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1221>
Status New

The `stun_parse_attribute` method calls the `data` function, at line 114 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	181	181
Object	data	data

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_attribute(stun_msg_t *msg, unsigned char *p)

```
....  
181.          attr->enc_buf.data = (unsigned char *) malloc(len);
```

Unchecked Return Value\Path 29:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1222>
Status New

The `stun_parse_attr_address` method calls the `addr` function, at line 200 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	213	213
Object	addr	addr

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_attr_address(stun_attr_t *attr,

```
....  
213.          addr = (su_sockaddr_t *) malloc(addrlen);
```

Unchecked Return Value\Path 30:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1223>
Status New

The `stun_parse_attr_error_code` method calls the `error` function, at line 235 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	242	242
Object	error	error

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {

```
....  
242.          error = (stun_attr_errorcode_t *) malloc(sizeof(*error));
```

Unchecked Return Value\Path 31:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1224>
Status New

The `stun_parse_attr_error_code` method calls the `phrase` function, at line 235 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	246	246

Object	phrase	phrase
--------	--------	--------

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {

```
....  
246.     error->phrase = (char *) malloc(len-3);
```

Unchecked Return Value\Path 32:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1225
Status	New

The `stun_parse_attr_uint32` method calls the `cr` function, at line 257 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	261	261
Object	cr	cr

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_attr_uint32(stun_attr_t *attr, const unsigned char *p, unsigned len)

```
....  
261.     cr = (stun_attr_changerequest_t *) malloc(sizeof(*cr));
```

Unchecked Return Value\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1226
Status	New

The `stun_parse_attr_buffer` method calls the `buf` function, at line 270 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

Source	Destination
--------	-------------

File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	273	273
Object	buf	buf

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_attr_buffer(stun_attr_t *attr, const unsigned char *p, unsigned len)

```
....
273.     buf = (stun_buffer_t *) malloc(sizeof(stun_buffer_t));
```

Unchecked Return Value\Path 34:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1227
Status	New

The stun_encode_message_integrity method calls the padded_text function, at line 434 of freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	451	451
Object	padded_text	padded_text

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_encode_message_integrity(stun_attr_t *attr,

```
....
451.     padded_text = (unsigned char *) malloc(padded_len);
```

Unchecked Return Value\Path 35:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1228
Status	New

The stun_encode_type_len method calls the data function, at line 478 of freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	481	481
Object	data	data

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c

Method int stun_encode_type_len(stun_attr_t *attr, uint16_t len) {

```
....  
481.     attr->enc_buf.data = (unsigned char *) malloc(len + 4);
```

Unchecked Return Value\Path 36:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1229>

Status New

The `stun_validate_message_integrity` method calls the `padded_text` function, at line 499 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	527	527
Object	padded_text	padded_text

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c

Method int stun_validate_message_integrity(stun_msg_t *msg, stun_buffer_t *pwd)

```
....  
527.     padded_text = (unsigned char *) malloc(padded_len);
```

Unchecked Return Value\Path 37:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1230>

Status New

The `*stun_determine_ip_address` method calls the `local_ip_address` function, at line 763 of `freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	786	786
Object	local_ip_address	local_ip_address

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method char *stun_determine_ip_address(int family)

```
....  
786.     local_ip_address = malloc(address_size + 1);
```

Unchecked Return Value\Path 38:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1231
Status	New

The stun_parse_attribute method calls the data function, at line 114 of freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	181	181
Object	data	data

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_parse_attribute(stun_msg_t *msg, unsigned char *p)

```
....  
181.     attr->enc_buf.data = (unsigned char *) malloc(len);
```

Unchecked Return Value\Path 39:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1232
Status	New

The stun_parse_attr_address method calls the addr function, at line 200 of freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	213	213
Object	addr	addr

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_parse_attr_address(stun_attr_t *attr,

```
....  
213.     addr = (su_sockaddr_t *) malloc(addrlen);
```

Unchecked Return Value\Path 40:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1233
Status	New

The `stun_parse_attr_error_code` method calls the error function, at line 235 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	242	242
Object	error	error

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {

```
....  
242.     error = (stun_attr_errorcode_t *) malloc(sizeof(*error));
```

Unchecked Return Value\Path 41:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1234
Status	New

The `stun_parse_attr_error_code` method calls the `phrase` function, at line 235 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	246	246
Object	<code>phrase</code>	<code>phrase</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`

Method `int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {`

```
....  
246.     error->phrase = (char *) malloc(len-3);
```

Unchecked Return Value\Path 42:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1235>

Status New

The `stun_parse_attr_uint32` method calls the `cr` function, at line 257 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	261	261
Object	<code>cr</code>	<code>cr</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`

Method `int stun_parse_attr_uint32(stun_attr_t *attr, const unsigned char *p, unsigned len)`

```
....  
261.     cr = (stun_attr_changerequest_t *) malloc(sizeof(*cr));
```

Unchecked Return Value\Path 43:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14>

Status [&pathid=1236](#)
New

The `stun_parse_attr_buffer` method calls the `buf` function, at line 270 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	273	273
Object	<code>buf</code>	<code>buf</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`

Method `int stun_parse_attr_buffer(stun_attr_t *attr, const unsigned char *p, unsigned len)`

```
....  
273.     buf = (stun_buffer_t *) malloc(sizeof(stun_buffer_t));
```

Unchecked Return Value\Path 44:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1237>

Status New

The `stun_encode_message_integrity` method calls the `padded_text` function, at line 434 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	451	451
Object	<code>padded_text</code>	<code>padded_text</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`

Method `int stun_encode_message_integrity(stun_attr_t *attr,`

```
....  
451.     padded_text = (unsigned char *) malloc(padded_len);
```

Unchecked Return Value\Path 45:

Severity Low

Result State To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1238
Status	New

The `stun_encode_type_len` method calls the `data` function, at line 478 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	481	481
Object	<code>data</code>	<code>data</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`
Method `int stun_encode_type_len(stun_attr_t *attr, uint16_t len) {`

```
....  
481.     attr->enc_buf.data = (unsigned char *) malloc(len + 4);
```

Unchecked Return Value\Path 46:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1239
Status	New

The `stun_validate_message_integrity` method calls the `padded_text` function, at line 499 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	527	527
Object	<code>padded_text</code>	<code>padded_text</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`
Method `int stun_validate_message_integrity(stun_msg_t *msg, stun_buffer_t *pwd)`

```
....  
527.     padded_text = (unsigned char *) malloc(padded_len);
```

Unchecked Return Value\Path 47:

Severity	Low
----------	-----

Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1240
Status	New

The `*stun_determine_ip_address` method calls the `local_ip_address` function, at line 763 of `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c</code>
Line	786	786
Object	<code>local_ip_address</code>	<code>local_ip_address</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c`
Method `char *stun_determine_ip_address(int family)`

```
....  
786.     local_ip_address = malloc(address_size + 1);
```

Unchecked Return Value\Path 48:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1241
Status	New

The `stun_parse_attribute` method calls the `data` function, at line 114 of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>
Line	181	181
Object	<code>data</code>	<code>data</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`
Method `int stun_parse_attribute(stun_msg_t *msg, unsigned char *p)`

```
....  
181.     attr->enc_buf.data = (unsigned char *) malloc(len);
```

Unchecked Return Value\Path 49:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1242
Status	New

The `stun_parse_attr_address` method calls the `addr` function, at line 200 of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>
Line	213	213
Object	<code>addr</code>	<code>addr</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`
Method `int stun_parse_attr_address(stun_attr_t *attr,`

```
....  
213.     addr = (su_sockaddr_t *) malloc(addrlen);
```

Unchecked Return Value\Path 50:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1243
Status	New

The `stun_parse_attr_error_code` method calls the `error` function, at line 235 of `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>	<code>freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c</code>
Line	242	242
Object	<code>error</code>	<code>error</code>

Code Snippet

File Name `freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c`
Method `int stun_parse_attr_error_code(stun_attr_t *attr, const unsigned char *p, unsigned len) {`

```
....  
242.     error = (stun_attr_errorcode_t *) malloc(sizeof(*error));
```


Unchecked Array Index

Query Path:

CPP\Cx\CPP Low Visibility\Unchecked Array Index Version:1

Categories

NIST SP 800-53: SI-10 Information Input Validation (P1)

Description

Unchecked Array Index\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1315
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Line	503	503
Object	p	p

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Method static void fips_expand_key_bits(BYTE* in, BYTE* out)

```
....  
503.                out[i] = (buf[p] << r) & 0xfe;
```

Unchecked Array Index\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1316
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Line	508	508
Object	p	p

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13397-TP.c
Method static void fips_expand_key_bits(BYTE* in, BYTE* out)

```
.....
508.                c = buf[p] << r;
```

Unchecked Array Index\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1317
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
Line	592	592
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
 Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
.....
592.                subSystems[i] = &g_Subsystem_mediacodec;
```

Unchecked Array Index\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1318
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
Line	598	598
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
 Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
.....
598.                subSystems[i] = &g_Subsystem_MF;
```

Unchecked Array Index\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1319
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
Line	604	604
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
604.             subSystems[i] = &g_Subsystem_OpenH264;
```

Unchecked Array Index\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1320
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
Line	610	610
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
610.             subSystems[i] = &g_Subsystem_libavcodec;
```

Unchecked Array Index\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14

Status	&pathid=1321 New
--------	---

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Line	602	602
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
602.                subSystems[i] = &g_Subsystem_mediacodec;
```

Unchecked Array Index\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1322
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Line	608	608
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
608.                subSystems[i] = &g_Subsystem_MF;
```

Unchecked Array Index\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1323
Status	New

Source	Destination
--------	-------------

File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Line	614	614
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
614.                subSystems[i] = &g_Subsystem_OpenH264;
```

Unchecked Array Index\Path 10:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1324>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Line	620	620
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
620.                subSystems[i] = &g_Subsystem_libavcodec;
```

Unchecked Array Index\Path 11:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1325>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c
Line	604	604

Object	i	i
--------	---	---

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c

Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
604.             subSystems[i] = &g_Subsystem_mediacodec;
```

Unchecked Array Index\Path 12:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1326>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c
Line	610	610
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c

Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
610.             subSystems[i] = &g_Subsystem_MF;
```

Unchecked Array Index\Path 13:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1327>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c
Line	616	616
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c

Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
616.                subSystems[i] = &g_Subsystem_OpenH264;
```

Unchecked Array Index\Path 14:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1328>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c
Line	622	622
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
622.                subSystems[i] = &g_Subsystem_libavcodec;
```

Unchecked Array Index\Path 15:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1329>
Status New

	Source	Destination
File	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Line	642	642
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
.....  
642.                subSystems[i] = &g_Subsystem_mediacodec;
```

Unchecked Array Index\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1330
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Line	648	648
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
.....  
648.                subSystems[i] = &g_Subsystem_MF;
```

Unchecked Array Index\Path 17:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1331
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Line	654	654
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
.....  
654.                subSystems[i] = &g_Subsystem_OpenH264;
```


Unchecked Array Index\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1332
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c	FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Line	660	660
Object	i	i

Code Snippet

File Name FreeRDP@@FreeRDP-3.6.0-CVE-2023-40187-FP.c
Method static BOOL CALLBACK h264_register_subsystems(PINIT_ONCE once, PVOID param, PVOID* context)

```
....  
660.             subSystems[i] = &g_Subsystem_libavcodec;
```

Unchecked Array Index\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1333
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	90	90
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.     msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1334

Status	New
--------	-----

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	90	90
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.     msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 21:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1335
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
91.     msg->stun_hdr.msg_len = get16(p, 2);
```

Unchecked Array Index\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1336
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c

Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c

Method int stun_parse_message(stun_msg_t *msg)

```
....  
91.      msg->stun_hdr.msg_len = get16(p, 2);
```

Unchecked Array Index\Path 23:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1337>

Status New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	90	90
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.      msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 24:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1338>

Status New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	90	90
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.    msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 25:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1339>

Status New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Method int stun_parse_message(stun_msg_t *msg)

```
....  
91.    msg->stun_hdr.msg_len = get16(p, 2);
```

Unchecked Array Index\Path 26:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1340>

Status New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c

Method int stun_parse_message(stun_msg_t *msg)

```
....  
91.    msg->stun_hdr.msg_len = get16(p, 2);
```

Unchecked Array Index\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1341
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Line	90	90
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.    msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 28:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1342
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Line	90	90
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.    msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 29:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1343
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
91.    msg->stun_hdr.msg_len = get16(p, 2);
```

Unchecked Array Index\Path 30:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1344
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
91.    msg->stun_hdr.msg_len = get16(p, 2);
```

Unchecked Array Index\Path 31:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1345
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	90	90

Object	p	p
--------	---	---

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.      msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 32:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1346
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	90	90
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.      msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1347
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
91.      msg->stun_hdr.msg_len = get16(p, 2);
```

Unchecked Array Index\Path 34:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1348
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
91.      msg->stun_hdr.msg_len = get16(p, 2);
```

Unchecked Array Index\Path 35:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1349
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Line	90	90
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.      msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 36:

Severity	Low
----------	-----

Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1350
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Line	90	90
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
90.    msg->stun_hdr.msg_type = get16(p, 0);
```

Unchecked Array Index\Path 37:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1351
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....  
91.    msg->stun_hdr.msg_len = get16(p, 2);
```

Unchecked Array Index\Path 38:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1352
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Line	91	91
Object	p	p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c
Method int stun_parse_message(stun_msg_t *msg)

```
....
91.      msg->stun_hdr.msg_len = get16(p, 2);
```

NULL Pointer Dereference

Query Path:

CPP\Cx\CPP Low Visibility\NULL Pointer Dereference Version:1

Categories

NIST SP 800-53: SC-5 Denial of Service Protection (P1)

OWASP Top 10 2017: A1-Injection

Description

NULL Pointer Dereference\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1282
Status	New

The variable declared in null at FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c in line 1363 is not initialized when it is used by clipboard at FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c in line 1385.

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1365	1385
Object	null	clipboard

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static LRESULT CALLBACK clipdr_proc(HWND hWnd, UINT Msg, WPARAM wParam, LPARAM lParam)

```
....
1365.      static wfClipboard* clipboard = NULL;
....
1385.      clipboard->RemoveClipboardFormatListener(hWnd);
```

NULL Pointer Dereference\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1283
Status	New

The variable declared in null at FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c in line 1364 is not initialized when it is used by clipboard at FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c in line 1364.

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1366	1386
Object	null	clipboard

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Method static LRESULT CALLBACK clipdr_proc(HWND hWnd, UINT Msg, WPARAM wParam, LPARAM lParam)

```
....  
1366.         static wfClipboard* clipboard = NULL;  
....  
1386.                                clipboard-  
>RemoveClipboardFormatListener(hWnd);
```

NULL Pointer Dereference\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1284
Status	New

The variable declared in null at FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c in line 1364 is not initialized when it is used by clipboard at FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c in line 1364.

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1366	1386
Object	null	clipboard

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static LRESULT CALLBACK clipdr_proc(HWND hWnd, UINT Msg, WPARAM wParam, LPARAM lParam)

```

.....
1366.         static wfClipboard* clipboard = NULL;
.....
1386.         clipboard-
>RemoveClipboardFormatListener(hwnd);

```

NULL Pointer Dereference\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1285
Status	New

The variable declared in null at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c in line 985 is not initialized when it is used by palette at FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c in line 985.

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c
Line	1313	1313
Object	null	palette

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32659-TP.c
Method void FreeRDPSplitColor(UINT32 color, UINT32 format, BYTE* _r, BYTE* _g, BYTE* _b, BYTE* _a,

```

.....
1313.         FreeRDPSplitColor(tmp, palette->format,
_r, _g, _b, _a, NULL);

```

NULL Pointer Dereference\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1286
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2933 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2206.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Line	2936	2222
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```
....
2936.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2222.         ( void ) memcpy( ( void * ) pvBuffer, ( void * ) pxQueue-
>u.xQueue.pcReadFrom, ( size_t ) pxQueue->uxItemSize ); /*lint !e961
!e418 !e9087 MISRA exception as the casts are only redundant for some
ports. Also previous logic ensures a null pointer can only be passed to
memcpy() when the count is 0. Cast to void required by function
signature and safe as no alignment requirement and copy length specified
in bytes. */
```

NULL Pointer Dereference\Path 6:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1287>
Status New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2947 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2206.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Line	2949	2222
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSetFromISR(QueueSetHandle_t xQueueSet)

```
....
2949.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```

.....
2222.          ( void ) memcpy( ( void * ) pvBuffer, ( void * ) pxQueue-
>u.xQueue.pcReadFrom, ( size_t ) pxQueue->uxItemSize ); /*lint !e961
!e418 !e9087 MISRA exception as the casts are only redundant for some
ports. Also previous logic ensures a null pointer can only be passed to
memcpy() when the count is 0. Cast to void required by function
signature and safe as no alignment requirement and copy length specified
in bytes. */

```

NULL Pointer Dereference\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1288
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2933 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2206.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Line	2936	2213
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```

.....
2936.          QueueSetMemberHandle_t xReturn = NULL;

```



File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```

.....
2213.          if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */

```

NULL Pointer Dereference\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1289
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2947 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2206.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Line	2949	2213
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSetFromISR(QueueSetHandle_t xQueueSet)

```
....
2949.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2213.         if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */
```

NULL Pointer Dereference\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1290
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2933 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2206.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Line	2936	2213
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```
....
2936.             QueueSetMemberHandle_t xReturn = NULL;
```



File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2213.             if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */
```

NULL Pointer Dereference\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1291
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2947 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2206.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Line	2949	2213
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSetFromISR(QueueSetHandle_t xQueueSet)

```
....
2949.             QueueSetMemberHandle_t xReturn = NULL;
```



File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2213.             if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */
```

NULL Pointer Dereference\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1292
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2933 is not initialized when it is used by pxQueue at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c in line 2347.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Line	2936	2353
Object	null	pxQueue

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```
....
2936.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-31571-TP.c
Method static BaseType_t prvIsQueueEmpty(const Queue_t * pxQueue)

```
....
2353.         if( pxQueue->uxMessagesWaiting == ( UBaseType_t ) 0 )
```

NULL Pointer Dereference\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1293
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2936 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Line	2939	2225
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```
....
2939.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c

Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2225.         ( void ) memcpy( ( void * ) pvBuffer, ( void * ) pxQueue-
>u.xQueue.pcReadFrom, ( size_t ) pxQueue->uxItemSize ); /*lint !e961
!e418 !e9087 MISRA exception as the casts are only redundant for some
ports. Also previous logic ensures a null pointer can only be passed to
memcpy() when the count is 0. Cast to void required by function
signature and safe as no alignment requirement and copy length specified
in bytes. */
```

NULL Pointer Dereference\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1294
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2950 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Line	2952	2225
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSetFromISR(QueueSetHandle_t xQueueSet)

```
....
2952.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c

Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```

.....
2225.          ( void ) memcpy( ( void * ) pvBuffer, ( void * ) pxQueue-
>u.xQueue.pcReadFrom, ( size_t ) pxQueue->uxItemSize ); /*lint !e961
!e418 !e9087 MISRA exception as the casts are only redundant for some
ports. Also previous logic ensures a null pointer can only be passed to
memcpy() when the count is 0. Cast to void required by function
signature and safe as no alignment requirement and copy length specified
in bytes. */

```

NULL Pointer Dereference\Path 14:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1295
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2936 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Line	2939	2216
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```

.....
2939.          QueueSetMemberHandle_t xReturn = NULL;

```



File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```

.....
2216.          if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */

```

NULL Pointer Dereference\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1296
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2950 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Line	2952	2216
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSetFromISR(QueueSetHandle_t xQueueSet)

```
....
2952.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2216.         if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */
```

NULL Pointer Dereference\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1297
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2936 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Line	2939	2216
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```
....
2939.             QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2216.             if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */
```

NULL Pointer Dereference\Path 17:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1298>
Status New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2950 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Line	2952	2216
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSetFromISR(QueueSetHandle_t xQueueSet)

```
....
2952.             QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2216.             if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */
```

NULL Pointer Dereference\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1299
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2936 is not initialized when it is used by pxQueue at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c in line 2350.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Line	2939	2356
Object	null	pxQueue

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```
....
2939.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-31571-TP.c
Method static BaseType_t prvIsQueueEmpty(const Queue_t * pxQueue)

```
....
2356.         if( pxQueue->uxMessagesWaiting == ( UBaseType_t ) 0 )
```

NULL Pointer Dereference\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1300
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2936 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Line	2939	2225
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```
....
2939.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c

Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2225.         ( void ) memcpy( ( void * ) pvBuffer, ( void * ) pxQueue-
>u.xQueue.pcReadFrom, ( size_t ) pxQueue->uxItemSize ); /*lint !e961
!e418 !e9087 MISRA exception as the casts are only redundant for some
ports. Also previous logic ensures a null pointer can only be passed to
memcpy() when the count is 0. Cast to void required by function
signature and safe as no alignment requirement and copy length specified
in bytes. */
```

NULL Pointer Dereference\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1301
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2950 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Line	2952	2225
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSetFromISR(QueueSetHandle_t xQueueSet)

```
....
2952.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c

Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```

.....
2225.          ( void ) memcpy( ( void * ) pvBuffer, ( void * ) pxQueue-
>u.xQueue.pcReadFrom, ( size_t ) pxQueue->uxItemSize ); /*lint !e961
!e418 !e9087 MISRA exception as the casts are only redundant for some
ports. Also previous logic ensures a null pointer can only be passed to
memcpy() when the count is 0. Cast to void required by function
signature and safe as no alignment requirement and copy length specified
in bytes. */

```

NULL Pointer Dereference\Path 21:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1302
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2936 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Line	2939	2216
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```

.....
2939.          QueueSetMemberHandle_t xReturn = NULL;

```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```

.....
2216.          if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */

```

NULL Pointer Dereference\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1303
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2950 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Line	2952	2216
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSetFromISR(QueueSetHandle_t xQueueSet)

```
....
2952.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2216.         if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */
```

NULL Pointer Dereference\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1304
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2936 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Line	2939	2216
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```
....
2939.             QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2216.             if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */
```

NULL Pointer Dereference\Path 24:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1305>
Status New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2950 is not initialized when it is used by u at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2209.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Line	2952	2216
Object	null	u

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSetFromISR(QueueSetHandle_t xQueueSet)

```
....
2952.             QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method static void prvCopyDataFromQueue(Queue_t * const pxQueue,

```
....
2216.             if( pxQueue->u.xQueue.pcReadFrom >= pxQueue-
>u.xQueue.pcTail ) /*lint !e946 MISRA exception justified as use of the
relational operator is the cleanest solutions. */
```

NULL Pointer Dereference\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1306
Status	New

The variable declared in null at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2936 is not initialized when it is used by pxQueue at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c in line 2350.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Line	2939	2356
Object	null	pxQueue

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method QueueSetMemberHandle_t xQueueSelectFromSet(QueueSetHandle_t xQueueSet,

```
....
2939.         QueueSetMemberHandle_t xReturn = NULL;
```

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-31571-TP.c
Method static BaseType_t prvIsQueueEmpty(const Queue_t * pxQueue)

```
....
2356.         if( pxQueue->uxMessagesWaiting == ( UBaseType_t ) 0 )
```

NULL Pointer Dereference\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1307
Status	New

The variable declared in 0 at FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2023-36328-TP.c in line 1247 is not initialized when it is used by a at FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2023-36328-TP.c in line 1247.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2023-36328-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2023-36328-TP.c
Line	1251	1251
Object	0	a

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.3.0-CVE-2023-36328-TP.c

Method void mp_set (mp_int * a, mp_digit b)

```
....  
1251.      a->used  = (a->dp[0] != 0) ? 1 : 0;
```

NULL Pointer Dereference\Path 27:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1308>

Status New

The variable declared in 0 at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-32020-TP.c in line 132 is not initialized when it is used by xStart at FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-32020-TP.c in line 132.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-32020-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-32020-TP.c
Line	154	154
Object	0	xStart

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.0-kernel-only-CVE-2021-32020-TP.c

Method static void prvHeapInit(void)

```
....  
154.      xStart.xBlockSize = ( size_t ) 0;
```

NULL Pointer Dereference\Path 28:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1309>

Status New

The variable declared in 0 at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-CVE-2021-32020-FP.c in line 132 is not initialized when it is used by xStart at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-CVE-2021-32020-FP.c in line 132.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-CVE-2021-32020-FP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-CVE-2021-32020-FP.c
Line	154	154
Object	0	xStart

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-CVE-2021-32020-FP.c
Method static void prvHeapInit(void)

```
....  
154.          xStart.xBlockSize = ( size_t ) 0;
```

NULL Pointer Dereference\Path 29:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1310>
Status New

The variable declared in 0 at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-32020-TP.c in line 134 is not initialized when it is used by xStart at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-32020-TP.c in line 134.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-32020-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-32020-TP.c
Line	156	156
Object	0	xStart

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-1-CVE-2021-32020-TP.c
Method static void prvHeapInit(void)

```
....  
156.          xStart.xBlockSize = ( size_t ) 0;
```

NULL Pointer Dereference\Path 30:

Severity Low
Result State To Verify
Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1311>
Status New

The variable declared in 0 at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-32020-TP.c in line 134 is not initialized when it is used by xStart at FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-32020-TP.c in line 134.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-32020-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-32020-TP.c
Line	156	156

Object	0	xStart
--------	---	--------

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.3-LTS-Patch-3-CVE-2021-32020-TP.c
Method static void prvHeapInit(void)

```
....
156.         xStart.xBlockSize = ( size_t ) 0;
```

NULL Pointer Dereference\Path 31:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1312
Status	New

The variable declared in 0 at FreeRTOS@@FreeRTOS-Kernel-V10.4.4-CVE-2021-32020-FP.c in line 133 is not initialized when it is used by xStart at FreeRTOS@@FreeRTOS-Kernel-V10.4.4-CVE-2021-32020-FP.c in line 133.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.4.4-CVE-2021-32020-FP.c	FreeRTOS@@FreeRTOS-Kernel-V10.4.4-CVE-2021-32020-FP.c
Line	155	155
Object	0	xStart

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.4.4-CVE-2021-32020-FP.c
Method static void prvHeapInit(void)

```
....
155.         xStart.xBlockSize = ( size_t ) 0;
```

NULL Pointer Dereference\Path 32:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1313
Status	New

The variable declared in 0 at FreeRTOS@@FreeRTOS-Kernel-V10.6.0-CVE-2021-32020-TP.c in line 136 is not initialized when it is used by xStart at FreeRTOS@@FreeRTOS-Kernel-V10.6.0-CVE-2021-32020-TP.c in line 136.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.6.0-CVE-2021-32020-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.6.0-CVE-2021-32020-TP.c

Line	158	158
Object	0	xStart

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.6.0-CVE-2021-32020-TP.c
Method static void prvHeapInit(void)

```
....
158.      xStart.xBlockSize = ( size_t ) 0;
```

NULL Pointer Dereference\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1314
Status	New

The variable declared in 0 at FreeRTOS@@FreeRTOS-Kernel-V10.6.2-CVE-2021-32020-TP.c in line 136 is not initialized when it is used by xStart at FreeRTOS@@FreeRTOS-Kernel-V10.6.2-CVE-2021-32020-TP.c in line 136.

	Source	Destination
File	FreeRTOS@@FreeRTOS-Kernel-V10.6.2-CVE-2021-32020-TP.c	FreeRTOS@@FreeRTOS-Kernel-V10.6.2-CVE-2021-32020-TP.c
Line	158	158
Object	0	xStart

Code Snippet

File Name FreeRTOS@@FreeRTOS-Kernel-V10.6.2-CVE-2021-32020-TP.c
Method static void prvHeapInit(void)

```
....
158.      xStart.xBlockSize = ( size_t ) 0;
```

Use of Sizeof On a Pointer Type

Query Path:

CPP\Cx\CPP Low Visibility\Use of Sizeof On a Pointer Type Version:1

[Description](#)

Use of Sizeof On a Pointer Type\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1271
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2020-	FreeRDP@@FreeRDP-2.0.0-CVE-2020-

	13398-TP.c	13398-TP.c
Line	481	481
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2020-13398-TP.c

Method static void string_list_allocate(string_list* list, int allocate_count)

```
....
481.                list->strings = calloc((size_t)allocate_count,
sizeof(char*));
```

Use of Sizeof On a Pointer Type\Path 2:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1272>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1708	1708
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
....
1708.                new_size *
sizeof(FILEDESCRIPTORW));
```

Use of Sizeof On a Pointer Type\Path 3:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1273>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1713	1713
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
....
1713.             new_name = (WCHAR**) realloc(clipboard->file_names,
new_size * sizeof(WCHAR*));
```

Use of Sizeof On a Pointer Type\Path 4:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1274>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1709	1709
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
....
1709.             new_size *
sizeof(FILEDESCRIPTORW*));
```

Use of Sizeof On a Pointer Type\Path 5:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1275>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1714	1714
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
.....
1714.                new_name = (WCHAR**) realloc (clipboard->file_names,
new_size * sizeof(WCHAR*));
```

Use of Sizeof On a Pointer Type\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1276
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1709	1709
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
.....
1709.                new_size *
sizeof(FILEDESCRIPTORW));
```

Use of Sizeof On a Pointer Type\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1277
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1714	1714
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Method static BOOL wf_clipdr_array_ensure_capacity(wfClipboard* clipboard)

```
.....
1714.                new_name = (WCHAR**) realloc (clipboard->file_names,
new_size * sizeof(WCHAR*));
```

Use of Sizeof On a Pointer Type\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1278
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Line	810	810
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-beta1-CVE-2024-32662-TP.c
Method static state_run_t rdp_rcv_server_redirection_pdu(rdpRdp* rdp, wStream* s)

```
....  
810.             redirection->TargetNetAddresses =  
(char**) calloc(count, sizeof(char*));
```

Use of Sizeof On a Pointer Type\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1279
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Line	833	833
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-3.0.0-rc0-CVE-2024-32662-TP.c
Method static state_run_t rdp_rcv_server_redirection_pdu(rdpRdp* rdp, wStream* s)

```
....  
833.             redirection->TargetNetAddresses =  
(char**) calloc(count, sizeof(char*));
```

Use of Sizeof On a Pointer Type\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1280
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	127	127
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
 Method static BOOL redirection_copy_array(char*** dst, UINT32* plen, const char** str, size_t len)

```
....
127.          *dst = calloc(len, sizeof(char*));
```

Use of Sizeof On a Pointer Type\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1281
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c	FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
Line	821	821
Object	sizeof	sizeof

Code Snippet

File Name FreeRDP@@FreeRDP-3.4.0-CVE-2024-32662-TP.c
 Method static state_run_t rdp_rcv_server_redirection_pdu(rdpRdp* rdp, wStream* s)

```
....
821.          redirection->TargetNetAddresses =
(char**)calloc(count, sizeof(char*));
```

Incorrect Permission Assignment For Critical Resources

Query Path:

CPP\Cx\CPP Low Visibility\Incorrect Permission Assignment For Critical Resources Version:1

Categories

FISMA 2014: Access Control

NIST SP 800-53: AC-3 Access Enforcement (P1)

OWASP Top 10 2017: A2-Broken Authentication

[Description](#)**Incorrect Permission Assignment For Critical Resources\Path 1:**

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1183
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1634	1634
Object	CreateFileW	CreateFileW

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static BOOL wf_clipdr_get_file_contents(WCHAR* file_name, BYTE* buffer, LONG positionLow,

```
....  
1634.         hFile = CreateFileW(file_name, GENERIC_READ,  
FILE_SHARE_READ, NULL, OPEN_EXISTING,
```

Incorrect Permission Assignment For Critical Resources\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1184
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Line	1673	1673
Object	CreateFileW	CreateFileW

Code Snippet

File Name FreeRDP@@FreeRDP-2.0.0-CVE-2021-37595-TP.c
Method static FILEDESCRIPTORW* wf_clipdr_get_file_descriptor(WCHAR* file_name, size_t pathLen)

```
....  
1673.         hFile = CreateFileW(file_name, GENERIC_READ,  
FILE_SHARE_READ, NULL, OPEN_EXISTING,
```

Incorrect Permission Assignment For Critical Resources\Path 3:

Severity	Low
----------	-----

Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1185
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1635	1635
Object	CreateFileW	CreateFileW

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_get_file_contents(WCHAR* file_name, BYTE* buffer, LONG positionLow,

```
....  
1635.         hFile = CreateFileW(file_name, GENERIC_READ,  
FILE_SHARE_READ, NULL, OPEN_EXISTING,
```

Incorrect Permission Assignment For Critical Resources\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1186
Status	New

	Source	Destination
File	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c
Line	1674	1674
Object	CreateFileW	CreateFileW

Code Snippet

File Name FreeRDP@@FreeRDP-2.2.0-CVE-2021-37595-TP.c

Method static FILEDESCRIPTORW* wf_clipdr_get_file_descriptor(WCHAR* file_name, size_t pathLen)

```
....  
1674.         hFile = CreateFileW(file_name, GENERIC_READ,  
FILE_SHARE_READ, NULL, OPEN_EXISTING,
```

Incorrect Permission Assignment For Critical Resources\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14

[&pathid=1187](#)

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1635	1635
Object	CreateFileW	CreateFileW

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Method static BOOL wf_clipdr_get_file_contents(WCHAR* file_name, BYTE* buffer, LONG positionLow,

```
....
1635.          hFile = CreateFileW(file_name, GENERIC_READ,
FILE_SHARE_READ, NULL, OPEN_EXISTING,
```

Incorrect Permission Assignment For Critical Resources\Path 6:

Severity Low

Result State To Verify

Online Results <http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1188>

Status New

	Source	Destination
File	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c	FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c
Line	1674	1674
Object	CreateFileW	CreateFileW

Code Snippet

File Name FreeRDP@@FreeRDP-2.3.0-CVE-2021-37595-TP.c

Method static FILEDESCRIPTORW* wf_clipdr_get_file_descriptor(WCHAR* file_name, size_t pathLen)

```
....
1674.          hFile = CreateFileW(file_name, GENERIC_READ,
FILE_SHARE_READ, NULL, OPEN_EXISTING,
```

Information Exposure Through Comments

Query Path:

CPP\Cx\CPP Low Visibility\Information Exposure Through Comments Version:1

Categories

FISMA 2014: Identification And Authentication

NIST SP 800-53: SC-28 Protection of Information at Rest (P1)

[Description](#)**Information Exposure Through Comments\Path 1:**

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1189
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Line	496	496
Object	password 'p	password 'p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.10-CVE-2023-22741-TP.c
Method * STUN password 'pwd'. The received content should be

```
....  
496.  * STUN password 'pwd'. The received content should be
```

Information Exposure Through Comments\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1190
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Line	496	496
Object	password 'p	password 'p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.2-CVE-2023-22741-TP.c
Method * STUN password 'pwd'. The received content should be

```
....  
496.  * STUN password 'pwd'. The received content should be
```

Information Exposure Through Comments\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1191

Status	New
--------	-----

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Line	496	496
Object	password 'p	password 'p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.3-CVE-2023-22741-TP.c
Method * STUN password 'pwd'. The received content should be

```
....  
496. * STUN password 'pwd'. The received content should be
```

Information Exposure Through Comments\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1192
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Line	496	496
Object	password 'p	password 'p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.4-CVE-2023-22741-TP.c
Method * STUN password 'pwd'. The received content should be

```
....  
496. * STUN password 'pwd'. The received content should be
```

Information Exposure Through Comments\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000019&projectid=14&pathid=1193
Status	New

	Source	Destination
File	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c	freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c

Line	496	496
Object	password 'p	password 'p

Code Snippet

File Name freeswitch@@sofia-sip-v1.13.6-CVE-2023-22741-TP.c

Method * STUN password 'pwd'. The received content should be

```
....  
496.      * STUN password 'pwd'. The received content should be
```

Buffer Overflow StrcpyStrcat

Risk

What might happen

Buffer overflow attacks, in their various forms, could allow an attacker to control certain areas of memory. Typically, this is used to overwrite data on the stack necessary for the program to function properly, such as code and memory addresses, though other forms of this attack exist. Exploiting this vulnerability can generally lead to system crashes, infinite loops, or even execution of arbitrary code.

Cause

How does it happen

Buffer Overflows can manifest in numerous different variations. In its most basic form, the attack controls a buffer, which is then copied to a smaller buffer without size verification. Because the attacker's source buffer is larger than the program's target buffer, the attacker's data overwrites whatever is next on the stack, allowing the attacker to control program structures.

Alternatively, the vulnerability could be the result of improper bounds checking; exposing internal memory addresses outside of their valid scope; allowing the attacker to control the size of the target buffer; or various other forms.

General Recommendations

How to avoid it

- Always perform proper bounds checking before copying buffers or strings.
- Prefer to use safer functions and structures, e.g. safe string classes over `char*`, `strncpy` over `strcpy`, and so on.
- Consistently apply tests for the size of buffers.
- Do not return variable addresses outside the scope of their variables.

Source Code Examples

Divide By Zero

Risk

What might happen

When a program divides a number by zero, an exception will be raised. If this exception is not handled by the application, unexpected results may occur, including crashing the application. This can be considered a DoS (Denial of Service) attack, if an external user has control of the value of the denominator or can cause this error to occur.

Cause

How does it happen

The program receives an unexpected value, and uses it for division without filtering, validation, or verifying that the value is not zero. The application does not explicitly handle this error or prevent division by zero from occurring.

General Recommendations

How to avoid it

- Before dividing by an unknown value, validate the number and explicitly ensure it does not evaluate to zero.
 - Validate all untrusted input from all sources, in particular verifying that it is not zero before dividing with it.
 - Verify output of methods, calculations, dictionary lookups, and so on, and ensure it is not zero before dividing with the result.
 - Ensure divide-by-zero errors are caught and handled appropriately.
-

Source Code Examples

Java

Divide by Zero

```
public float getAverage(HttpServletRequest req) {  
    int total = Integer.parseInt(req.getParameter("total"));  
    int count = Integer.parseInt(req.getParameter("count"));  
  
    return total / count;  
}
```

Checked Division

```
public float getAverage(HttpServletRequest req) {  
    int total = Integer.parseInt(req.getParameter("total"));  
    int count = Integer.parseInt(req.getParameter("count"));
```

```
if (count > 0)
    return total / count;
else
    return 0;
}
```

Buffer Overflow boundcpy WrongSizeParam

Risk

What might happen

Buffer overflow attacks, in their various forms, could allow an attacker to control certain areas of memory. Typically, this is used to overwrite data on the stack necessary for the program to function properly, such as code and memory addresses, though other forms of this attack exist. Exploiting this vulnerability can generally lead to system crashes, infinite loops, or even execution of arbitrary code.

Cause

How does it happen

Buffer Overflows can manifest in numerous different variations. In its most basic form, the attack controls a buffer, which is then copied to a smaller buffer without size verification. Because the attacker's source buffer is larger than the program's target buffer, the attacker's data overwrites whatever is next on the stack, allowing the attacker to control program structures.

Alternatively, the vulnerability could be the result of improper bounds checking; exposing internal memory addresses outside of their valid scope; allowing the attacker to control the size of the target buffer; or various other forms.

General Recommendations

How to avoid it

- Always perform proper bounds checking before copying buffers or strings.
 - Prefer to use safer functions and structures, e.g. safe string classes over `char*`, `strncpy` over `strcpy`, and so on.
 - Consistently apply tests for the size of buffers.
 - Do not return variable addresses outside the scope of their variables.
-

Source Code Examples

CPP

Overflowing Buffers

```
const int BUFFER_SIZE = 10;
char buffer[BUFFER_SIZE];

void copyStringToBuffer(char* inputString)
{
    strcpy(buffer, inputString);
}
```

Checked Buffers

```
const int BUFFER_SIZE = 10;
const int MAX_INPUT_SIZE = 256;
```

```
char buffer[BUFFER_SIZE];

void copyStringToBuffer(char* inputString)
{
    if (strlen(inputString, MAX_INPUT_SIZE) < sizeof(buffer))
    {
        strncpy(buffer, inputString, sizeof(buffer));
    }
}
```

MemoryFree on StackVariable

Risk

What might happen

Undefined Behavior may result with a crash. Crashes may give an attacker valuable information about the system and the program internals. Furthermore, it may leave unprotected files (e.g. memory) that may be exploited.

Cause

How does it happen

Calling `free()` on a variable that was not dynamically allocated (e.g. `malloc`) will result with an Undefined Behavior.

General Recommendations

How to avoid it

Use `free()` only on dynamically allocated variables in order to prevent unexpected behavior from the compiler.

Source Code Examples

CPP

Bad - Calling `free()` on a static variable

```
void clean_up() {  
    char temp[256];  
    do_something();  
    free(tmp);  
    return;  
}
```

Good - Calling `free()` only on variables that were dynamically allocated

```
void clean_up() {  
    char *buff;  
    buff = (char*) malloc(1024);  
    free(buff);  
    return;  
}
```

Wrong Size t Allocation

Risk

What might happen

Incorrect allocation of memory may result in unexpected behavior by either overwriting sections of memory with unexpected values. Under certain conditions where both an incorrect allocation of memory and the values being written can be controlled by an attacker, such an issue may result in execution of malicious code.

Cause

How does it happen

Some memory allocation functions require a size value to be provided as a parameter. The allocated size should be derived from the provided value, by providing the length value of the intended source, multiplied by the size of that length. Failure to perform the correct arithmetic to obtain the exact size of the value will likely result in the source overflowing its destination.

General Recommendations

How to avoid it

- Always perform the correct arithmetic to determine size.
 - Specifically for memory allocation, calculate the allocation size from the allocation source:
 - Derive the size value from the length of intended source to determine the amount of units to be processed.
 - Always programmatically consider the size of the each unit and their conversion to memory units - for example, by using `sizeof()` on the unit's type.
 - Memory allocation should be a multiplication of the amount of units being written, times the size of each unit.
-

Source Code Examples

CPP

Allocating and Assigning Memory without Sizeof Arithmetic

```
int *ptr;
ptr = (int*)malloc(5);
for (int i = 0; i < 5; i++)
{
    ptr[i] = i * 2 + 1;
}
```

Allocating and Assigning Memory with Sizeof Arithmetic

```
int *ptr;
ptr = (int*)malloc(5 * sizeof(int));
```



```
for (int i = 0; i < 5; i++)
{
    ptr[i] = i * 2 + 1;
}
```

Incorrect Arithmetic of Multi-Byte String Allocation

```
wchar_t * dest;
dest = (wchar_t *)malloc(wcslen(source) + 1); // Would not crash for a short "source"
wcscpy((wchar_t *)dest, source);
wprintf(L"Dest: %s\r\n", dest);
```

Correct Arithmetic of Multi-Byte String Allocation

```
wchar_t * dest;
dest = (wchar_t *)malloc((wcslen(source) + 1) * sizeof(wchar_t));
wcscpy((wchar_t *)dest, source);
wprintf(L"Dest: %s\r\n", dest);
```

Char Overflow

Risk

What might happen

Assigning large data types into smaller data types, without proper checks and explicit casting, will lead to undefined behavior and unintentional effects, such as data corruption (e.g. value wraparound, wherein maximum values become minimum values); system crashes; infinite loops; logic errors, such as bypassing of security mechanisms; or even buffer overflows leading to arbitrary code execution.

Cause

How does it happen

This flaw can occur when implicitly casting numerical data types of a larger size, into a variable with a data type of a smaller size. This forces the program to discard some bits of information from the number. Depending on how the numerical data types are stored in memory, this is often the bits with the highest value, causing substantial corruption of the stored number. Alternatively, the sign bit of a signed integer could be lost, completely reversing the intention of the number.

General Recommendations

How to avoid it

- Avoid casting larger data types to smaller types.
 - Prefer promoting the target variable to a large enough data type.
 - If downcasting is necessary, always check that values are valid and in range of the target type, before casting
-

Source Code Examples

CPP

Unsafe Downsize Casting

```
int unsafe_addition(short op1, int op2) {  
    // op2 gets forced from int into a short  
    short total = op1 + op2;  
    return total;  
}
```

Safer Use of Proper Data Types

```
int safe_addition(short op1, int op2) {  
    // total variable is of type int, the largest type that is needed  
    int total = 0;  
    // check if total will overflow available integer size  
    if (INT_MAX - abs(op2) > op1)
```

```
{
    total = op1 + op2;
}
else
{
    // instead of overflow, saturate (but this is not always a good thing)
    total = INT_MAX
}

return total;
}
```

Integer Overflow

Risk

What might happen

Assigning large data types into smaller data types, without proper checks and explicit casting, will lead to undefined behavior and unintentional effects, such as data corruption (e.g. value wraparound, wherein maximum values become minimum values); system crashes; infinite loops; logic errors, such as bypassing of security mechanisms; or even buffer overflows leading to arbitrary code execution.

Cause

How does it happen

This flaw can occur when implicitly casting numerical data types of a larger size, into a variable with a data type of a smaller size. This forces the program to discard some bits of information from the number. Depending on how the numerical data types are stored in memory, this is often the bits with the highest value, causing substantial corruption of the stored number. Alternatively, the sign bit of a signed integer could be lost, completely reversing the intention of the number.

General Recommendations

How to avoid it

- Avoid casting larger data types to smaller types.
 - Prefer promoting the target variable to a large enough data type.
 - If downcasting is necessary, always check that values are valid and in range of the target type, before casting
-

Source Code Examples

Dangerous Functions

Risk

What might happen

Use of dangerous functions may expose varying risks associated with each particular function, with potential impact of improper usage of these functions varying significantly. The presence of such functions indicates a flaw in code maintenance policies and adherence to secure coding practices, in a way that has allowed introducing known dangerous code into the application.

Cause

How does it happen

A dangerous function has been identified within the code. Functions are often deemed dangerous to use for numerous reasons, as there are different sets of vulnerabilities associated with usage of such functions. For example, some string copy and concatenation functions are vulnerable to Buffer Overflow, Memory Disclosure, Denial of Service and more. Use of these functions is not recommended.

General Recommendations

How to avoid it

- Deploy a secure and recommended alternative to any functions that were identified as dangerous.
 - If no secure alternative is found, conduct further researching and testing to identify whether current usage successfully sanitizes and verifies values, and thus successfully avoids the use-cases for whom the function is indeed dangerous
 - Conduct a periodical review of methods that are in use, to ensure that all external libraries and built-in functions are up-to-date and whose use has not been excluded from best secure coding practices.
-

Source Code Examples

CPP

Buffer Overflow in gets()

```
int main()
{
    char buf[10];

    printf("Please enter your name: ");
    gets(buf); // veryveryverylongname
    if (buf == ACCEPTED_NAME)
    {
        // Do something
    }
    return 0;
}
```

Safe reading from user

```
int main()
{
    char buf[10];

    printf("Please enter your name: ");
    fgets(buf, sizeof(buf), stdin); //setting the amount of bytes to read
    if (buf == ACCEPTED_NAME)
    {
        //Do something
    }
    return 0;
}
```

Unsafe function for string copy

```
int main(int argc, char* argv[])
{
    char buf[10];
    strcpy(buf, argv[1]); // overflow occurs when len(argv[1]) > 10 bytes

    return 0;
}
```

Safe string copy

```
int main(int argc, char* argv[])
{
    char buf[10];
    strncpy(buf, argv[1], sizeof(buf));
    buf[9] = '\0'; //strncpy doesn't NULL terminates

    return 0;
}
```

Unsafe format string

```
int main(int argc, char* argv[])
{
    printf(argv[1]); // If argv[1] contains a format token, such as %s,%x or %d, will cause an access violation
    return 0;
}
```

Safe format string

```
int main(int argc, char* argv[])
{
    printf("%s", argv[1]); // Second parameter is not a formattable string
    return 0;
}
```

Heap Inspection

Risk

What might happen

All variables stored by the application in unencrypted memory can potentially be retrieved by an unauthorized user, with privileged access to the machine. For example, a privileged attacker could attach a debugger to the running process, or retrieve the process's memory from the swapfile or crash dump file.

Once the attacker finds the user passwords in memory, these can be reused to easily impersonate the user to the system.

Cause

How does it happen

String variables are immutable - in other words, once a string variable is assigned, its value cannot be changed or removed. Thus, these strings may remain around in memory, possibly in multiple locations, for an indefinite period of time until the garbage collector happens to remove it. Sensitive data, such as passwords, will remain exposed in memory as plaintext with no control over their lifetime.

General Recommendations

How to avoid it

Generic Guidance:

- Do not store sensitive data, such as passwords or encryption keys, in memory in plaintext, even for a short period of time.
- Prefer to use specialized classes that store encrypted memory.
- Alternatively, store secrets temporarily in mutable data types, such as byte arrays, and then promptly zeroize the memory locations.

Specific Recommendations - Java:

- Instead of storing passwords in immutable strings, prefer to use an encrypted memory object, such as `SealedObject`.

Specific Recommendations - .NET:

- Instead of storing passwords in immutable strings, prefer to use an encrypted memory object, such as `SecureString` or `ProtectedData`.
-

Source Code Examples

Java

Plaintext Password in Immutable String

```
class Heap_Inspection
{
    private string password;
```



```
void setPassword()  
{  
    password = System.console().readLine("Enter your password: ");  
}  
}
```

Password Protected in Memory

```
class Heap_Inspection_Fixed  
{  
    private SealedObject password;  
  
    void setPassword()  
    {  
        byte[] sKey = getKeyFromConfig();  
        Cipher c = Cipher.getInstance("AES");  
        c.init(Cipher.ENCRYPT_MODE, sKey);  
  
        char[] input = System.console().readPassword("Enter your password: ");  
        password = new SealedObject(Arrays.asList(input), c);  
  
        //Zero out the possible password, for security.  
        Arrays.fill(password, '0');  
    }  
}
```

CPP

Vulnerable C code

```
/* Vulnerable to heap inspection */  
  
#include <stdio.h>  
  
void somefunc() {  
    printf("Yea, I'm just being called for the heap of it..\n");  
}  
  
void authfunc() {  
    char* password = (char *) malloc(256);  
    char ch;  
    ssize_t k;  
    int i=0;  
    while(k = read(0, &ch, 1) > 0)  
    {  
        if (ch == '\n') {  
            password[i]='\0';  
            break;  
        } else {  
            password[i++]=ch;  
            fflush(0);  
        }  
    }  
    printf("Password: %s\n", &password[0]);  
}
```

```
int main()
{
    printf("Please enter a password:\n");

    authfunc();
    printf("You can now dump memory to find this password!");
    somefunc();
    gets();
}
```

Safe C code

```
/* Presumably safe heap */

#include <stdio.h>
#include <string.h>

#define STDIN_FILENO 0

void somefunc() {
    printf("Yea, I'm just being called for the heap of it..\n");
}

void authfunc() {
    char* password = (char*) malloc(256);
    int i=0;
    char ch;
    ssize_t k;
    while(k = read(STDIN_FILENO, &ch, 1) > 0)
    {
        if (ch == '\n') {
            password[i]='\0';
            break;
        } else {
            password[i++]=ch;
            fflush(0);
        }
    }
    i=0;
    memset(password, '\0', 256);
}

int main()
{
    printf("Please enter a password:\n");
    authfunc();
    somefunc();
    char ch;
    while(read(STDIN_FILENO, &ch, 1) > 0)
    {
        if (ch == '\n')
            break;
    }
}
```

Failure to Release Memory Before Removing Last Reference ('Memory Leak')

Weakness ID: 401 (*Weakness Base*)

Status: Draft

Description

Description Summary

The software does not sufficiently track and release allocated memory after it has been used, which slowly consumes remaining memory.

Extended Description

This is often triggered by improper handling of malformed data or unexpectedly interrupted sessions.

Terminology Notes

"memory leak" has sometimes been used to describe other kinds of issues, e.g. for information leaks in which the contents of memory are inadvertently leaked (CVE-2003-0400 is one such example of this terminology conflict).

Time of Introduction

- Architecture and Design
- Implementation

Applicable Platforms

Languages

C

C++

Modes of Introduction

Memory leaks have two common and sometimes overlapping causes:

- Error conditions and other exceptional circumstances
- Confusion over which part of the program is responsible for freeing the memory

Common Consequences

Scope	Effect
Availability	Most memory leaks result in general software reliability problems, but if an attacker can intentionally trigger a memory leak, the attacker might be able to launch a denial of service attack (by crashing or hanging the program) or take advantage of other unexpected program behavior resulting from a low memory condition.

Likelihood of Exploit

Medium

Demonstrative Examples

Example 1

The following C function leaks a block of allocated memory if the call to read() fails to return the expected number of bytes:

(*Bad Code*)

Example Language: C

```
char* getBlock(int fd) {
char* buf = (char*) malloc(BLOCK_SIZE);
if (!buf) {
return NULL;
}
if (read(fd, buf, BLOCK_SIZE) != BLOCK_SIZE) {

return NULL;
}
```

```
return buf;
}
```

Example 2

Here the problem is that every time a connection is made, more memory is allocated. So if one just opened up more and more connections, eventually the machine would run out of memory.

(Bad Code)

Example Language: C

```
bar connection(){
foo = malloc(1024);
return foo;
}

endConnection(bar foo) {

free(foo);
}

int main() {

while(1) //thread 1
//On a connection
foo=connection(); //thread 2
//When the connection ends
endConnection(foo)
}
```

Observed Examples

Reference	Description
CVE-2005-3119	Memory leak because function does not free() an element of a data structure.
CVE-2004-0427	Memory leak when counter variable is not decremented.
CVE-2002-0574	Memory leak when counter variable is not decremented.
CVE-2005-3181	Kernel uses wrong function to release a data structure, preventing data from being properly tracked by other code.
CVE-2004-0222	Memory leak via unknown manipulations as part of protocol test suite.
CVE-2001-0136	Memory leak via a series of the same command.

Potential Mitigations

Pre-design: Use a language or compiler that performs automatic bounds checking.

Phase: Architecture and Design

Use an abstraction library to abstract away risky APIs. Not a complete solution.

Pre-design through Build: The Boehm-Demers-Weiser Garbage Collector or valgrind can be used to detect leaks in code. This is not a complete solution as it is not 100% effective.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Weakness Class	398	Indicator of Poor Code Quality	Seven Pernicious Kingdoms (primary)700
ChildOf	Category	399	Resource Management Errors	Development Concepts (primary)699
ChildOf	Category	633	Weaknesses that Affect Memory	Resource-specific Weaknesses (primary)631
ChildOf	Category	730	OWASP Top Ten 2004 Category A9 - Denial of Service	Weaknesses in OWASP Top Ten (2004) (primary)711
ChildOf	Weakness Base	772	Missing Release of Resource after Effective	Research Concepts (primary)1000

MemberOf	View	630	Lifetime Weaknesses Examined by SAMATE	Weaknesses Examined by SAMATE (primary) 630 Research Concepts1000
CanFollow	Weakness Class	390	Detection of Error Condition Without Action	

Relationship Notes

This is often a resultant weakness due to improper handling of malformed data or early termination of sessions.

Affected Resources

- Memory

Functional Areas

- Memory management

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
PLOVER			Memory leak
7 Pernicious Kingdoms			Memory Leak
CLASP			Failure to deallocate data
OWASP Top Ten 2004	A9	CWE More Specific	Denial of Service

White Box Definitions

A weakness where the code path has:

1. start statement that allocates dynamically allocated memory resource
2. end statement that loses identity of the dynamically allocated memory resource creating situation where dynamically allocated memory resource is never relinquished

Where "loses" is defined through the following scenarios:

1. identity of the dynamic allocated memory resource never obtained
2. the statement assigns another value to the data element that stored the identity of the dynamically allocated memory resource and there are no aliases of that data element
3. identity of the dynamic allocated memory resource obtained but never passed on to function for memory resource release
4. the data element that stored the identity of the dynamically allocated resource has reached the end of its scope at the statement and there are no aliases of that data element

References

J. Whittaker and H. Thompson. "How to Break Software Security". Addison Wesley. 2003.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	PLOVER		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci	Cigital	External
	updated Time of Introduction		
2008-08-01		KDM Analytics	External
	added/updated white box definitions		
2008-08-15		Veracode	External
	Suggested OWASP Top Ten 2004 mapping		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Relationships, Other Notes, References, Relationship Notes, Taxonomy Mappings, Terminology Notes		
2008-10-14	CWE Content Team	MITRE	Internal
	updated Description		
2009-03-10	CWE Content Team	MITRE	Internal
	updated Other Notes		
2009-05-27	CWE Content Team	MITRE	Internal
	updated Name		
2009-07-17	KDM Analytics		External
	Improved the White Box Definition		

2009-07-27	CWE Content Team	MITRE	Internal	
	updated White Box Definitions			
2009-10-29	CWE Content Team	MITRE	Internal	
	updated Modes of Introduction, Other Notes			
2010-02-16	CWE Content Team	MITRE	Internal	
	updated Relationships			
Previous Entry Names				
Change Date	Previous Entry Name			
2008-04-11	Memory Leak			
2009-05-27	Failure to Release Memory Before Removing Last Reference (aka 'Memory Leak')			

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Use of a One Way Hash without a Salt

Risk

What might happen

If an attacker gains access to the hashed passwords, she would likely be able to reverse the hash due to this weakness, and retrieve the original password. Once the passwords are discovered, the attacker can impersonate the users, and take full advantage of their privileges and access their personal data. Furthermore, this would likely not be discovered, as the attacker is being identified solely by the victims' credentials.

Cause

How does it happen

Typical cryptographic hashes, such as SHA-1 and MD5, are incredibly fast. Combined with attack techniques such as precomputed Rainbow Tables, it is relatively easy for attackers to reverse the hashes, and discover the original passwords. Lack of a unique, random salt added to the password makes brute force attacks even simpler.

General Recommendations

How to avoid it

Generic Guidance:

- Always use strong, modern algorithms for encryption, hashing, and so on.
- Do not use weak, outdated, or obsolete algorithms.
- Ensure you select the correct cryptographic mechanism according to the specific requirements.

Specific Recommendations:

- Passwords should be protected using a password hashing algorithm, instead of a general cryptographic hash. This includes adaptive hashes such as bcrypt, scrypt, PBKDF2 and Argon2.
 - Tune the work factor, or cost, of the adaptive hash function according to the designated environment and risk profile.
 - Do not use a regular cryptographic hash, such as SHA-1 or MD5, to protect passwords, as these are too fast.
 - If it is necessary to use a common hash to protect passwords, add several bytes of unique, random data ("salt") to the password before hashing it. Store the salt with the hashed password, and do not reuse the same salt for multiple passwords.
-

Source Code Examples

Java

Unsalted Hashed Password

```
private String protectPassword(String password) {
```

```
byte[] data = password.getBytes();
byte[] hash = null;

MessageDigest md = MessageDigest.getInstance("MD5");
hash = md.digest(data);

return Base64.getEncoder().encodeToString(hash);
}
```

Fast Hash with Salt

```
private String protectPassword(String password) {
    byte[] data = password.getBytes("UTF-8");
    byte[] hash = null;

    try {
        MessageDigest md = MessageDigest.getInstance("SHA-1");

        SecureRandom rand = new SecureRandom();
        byte[] salt = new byte[32];
        rand.nextBytes(salt);

        md.update(salt);
        md.update(data);

        hash = md.digest();
    }
    catch (GeneralSecurityException gse) {
        handleCryptoErrors(gse);
    }
    finally {
        Arrays.fill(data, 0);
    }

    return Base64.getEncoder().encodeToString(hash);
}
```

Slow, Adaptive Password Hash

```
private String protectPassword(String password) {
    byte[] data = password.getBytes("UTF-8");
    byte[] hash = null;

    try {
        SecureRandom rand = new SecureRandom();
        byte[] salt = new byte[32];
        rand.nextBytes(salt);

        SecretKeyFactory skf = SecretKeyFactory.getInstance("PBKDF2WithHmacSHA512");
        PBEKeySpec spec = new PBEKeySpec(data, salt, ITERATION_COUNT, KEY_LENGTH);
        // ITERATION_COUNT should be configured by environment, KEY_LENGTH should be 256
        SecretKey key = skf.generateSecret(spec);

        hash = key.getEncoded();
    }
    catch (GeneralSecurityException gse) {
        handleCryptoErrors(gse);
    }
    finally {
        Arrays.fill(data, 0);
    }

    return Base64.getEncoder().encodeToString(hash);
}
```


Use of Zero Initialized Pointer

Risk

What might happen

A null pointer dereference is likely to cause a run-time exception, a crash, or other unexpected behavior.

Cause

How does it happen

Variables which are declared without being assigned will implicitly retain a null value until they are assigned. The null value can also be explicitly set to a variable, to ensure clear out its contents. Since null is not really a value, it may not have object variables and methods, and any attempt to access contents of a null object, instead of verifying it is set beforehand, will result in a null pointer dereference exception.

General Recommendations

How to avoid it

- For any variable that is created, ensure all logic flows between declaration and use assign a non-null value to the variable first.
 - Enforce null checks on any received variable or object before it is dereferenced, to ensure it does not contain a null assigned to it elsewhere.
 - Consider the need to assign null values in order to overwrite initialized variables. Consider reassigning or releasing these variables instead.
-

Source Code Examples

CPP

Explicit NULL Dereference

```
char * input = NULL;
printf("%s", input);
```

Implicit NULL Dereference

```
char * input;
printf("%s", input);
```

Java

Explicit Null Dereference

```
Object o = null;
out.println(o.getClass());
```



Incorrect Permission Assignment for Critical Resource**Weakness ID:** 732 (*Weakness Class*)**Status:** Draft**Description****Description Summary**

The software specifies permissions for a security-critical resource in a way that allows that resource to be read or modified by unintended actors.

Extended Description

When a resource is given a permissions setting that provides access to a wider range of actors than required, it could lead to the disclosure of sensitive information, or the modification of that resource by unintended parties. This is especially dangerous when the resource is related to program configuration, execution or sensitive user data.

Time of Introduction

- Architecture and Design
- Implementation
- Installation
- Operation

Applicable Platforms**Languages**

Language-independent

Modes of Introduction

The developer may set loose permissions in order to minimize problems when the user first runs the program, then create documentation stating that permissions should be tightened. Since system administrators and users do not always read the documentation, this can result in insecure permissions being left unchanged.

The developer might make certain assumptions about the environment in which the software runs - e.g., that the software is running on a single-user system, or the software is only accessible to trusted administrators. When the software is running in a different environment, the permissions become a problem.

Common Consequences

Scope	Effect
Confidentiality	An attacker may be able to read sensitive information from the associated resource, such as credentials or configuration information stored in a file.
Integrity	An attacker may be able to modify critical properties of the associated resource to gain privileges, such as replacing a world-writable executable with a Trojan horse.
Availability	An attacker may be able to destroy or corrupt critical data in the associated resource, such as deletion of records from a database.

Likelihood of Exploit

Medium to High

Detection Methods**Automated Static Analysis**

Automated static analysis may be effective in detecting permission problems for system resources such as files, directories, shared memory, device interfaces, etc. Automated techniques may be able to detect the use of library functions that modify permissions, then analyze function calls for arguments that contain potentially insecure values.

However, since the software's intended security policy might allow loose permissions for certain operations (such as publishing a file on a web server), automated static analysis may produce some false positives - i.e., warnings that do not have any security consequences or require any code changes.

When custom permissions models are used - such as defining who can read messages in a particular forum in a bulletin board system - these can be difficult to detect using automated static analysis. It may be possible to define custom signatures that

identify any custom functions that implement the permission checks and assignments.

Automated Dynamic Analysis

Automated dynamic analysis may be effective in detecting permission problems for system resources such as files, directories, shared memory, device interfaces, etc.

However, since the software's intended security policy might allow loose permissions for certain operations (such as publishing a file on a web server), automated dynamic analysis may produce some false positives - i.e., warnings that do not have any security consequences or require any code changes.

When custom permissions models are used - such as defining who can read messages in a particular forum in a bulletin board system - these can be difficult to detect using automated dynamic analysis. It may be possible to define custom signatures that identify any custom functions that implement the permission checks and assignments.

Manual Static Analysis

Manual static analysis may be effective in detecting the use of custom permissions models and functions. The code could then be examined to identifying usage of the related functions. Then the human analyst could evaluate permission assignments in the context of the intended security model of the software.

Manual Dynamic Analysis

Manual dynamic analysis may be effective in detecting the use of custom permissions models and functions. The program could then be executed with a focus on exercising code paths that are related to the custom permissions. Then the human analyst could evaluate permission assignments in the context of the intended security model of the software.

Fuzzing

Fuzzing is not effective in detecting this weakness.

Demonstrative Examples

Example 1

The following code sets the umask of the process to 0 before creating a file and writing "Hello world" into the file.

(Bad Code)

Example Language: C

```
#define OUTFILE "hello.out"

umask(0);
FILE *out;
/* Ignore CWE-59 (link following) for brevity */
out = fopen(OUTFILE, "w");
if (out) {
    fprintf(out, "hello world!\n");
    fclose(out);
}
```

After running this program on a UNIX system, running the "ls -l" command might return the following output:

(Result)

```
-rw-rw-rw- 1 username 13 Nov 24 17:58 hello.out
```

The "rw-rw-rw-" string indicates that the owner, group, and world (all users) can read the file and write to it.

Example 2

The following code snippet might be used as a monitor to periodically record whether a web site is alive. To ensure that the file can always be modified, the code uses chmod() to make the file world-writable.

(Bad Code)

Example Language: Perl

```
$fileName = "secretFile.out";

if (-e $fileName) {
    chmod 0777, $fileName;
}
```

```
my $outFH;
if (! open($outFH, ">>$fileName")) {
ExitError("Couldn't append to $fileName: $!");
}
my $dateString = FormatCurrentTime();
my $status = IsHostAlive("cwe.mitre.org");
print $outFH "$dateString cwe status: $status!\n";
close($outFH);
```

The first time the program runs, it might create a new file that inherits the permissions from its environment. A file listing might look like:

(Result)

```
-rw-r--r-- 1 username 13 Nov 24 17:58 secretFile.out
```

This listing might occur when the user has a default umask of 022, which is a common setting. Depending on the nature of the file, the user might not have intended to make it readable by everyone on the system.

The next time the program runs, however - and all subsequent executions - the chmod will set the file's permissions so that the owner, group, and world (all users) can read the file and write to it:

(Result)

```
-rw-rw-rw- 1 username 13 Nov 24 17:58 secretFile.out
```

Perhaps the programmer tried to do this because a different process uses different permissions that might prevent the file from being updated.

Example 3

The following command recursively sets world-readable permissions for a directory and all of its children:

(Bad Code)

Example Language: Shell

```
chmod -R ugo+r DIRNAME
```

If this command is run from a program, the person calling the program might not expect that all the files under the directory will be world-readable. If the directory is expected to contain private data, this could become a security problem.

Observed Examples

Reference	Description
CVE-2009-3482	Anti-virus product sets insecure "Everyone: Full Control" permissions for files under the "Program Files" folder, allowing attackers to replace executables with Trojan horses.
CVE-2009-3897	Product creates directories with 0777 permissions at installation, allowing users to gain privileges and access a socket used for authentication.
CVE-2009-3489	Photo editor installs a service with an insecure security descriptor, allowing users to stop or start the service, or execute commands as SYSTEM.
CVE-2009-3289	Library function copies a file to a new target and uses the source file's permissions for the target, which is incorrect when the source file is a symbolic link, which typically has 0777 permissions.
CVE-2009-0115	Device driver uses world-writable permissions for a socket file, allowing attackers to inject arbitrary commands.
CVE-2009-1073	LDAP server stores a cleartext password in a world-readable file.
CVE-2009-0141	Terminal emulator creates TTY devices with world-writable permissions, allowing an attacker to write to the terminals of other users.

CVE-2008-0662	VPN product stores user credentials in a registry key with "Everyone: Full Control" permissions, allowing attackers to steal the credentials.
CVE-2008-0322	Driver installs its device interface with "Everyone: Write" permissions.
CVE-2009-3939	Driver installs a file with world-writable permissions.
CVE-2009-3611	Product changes permissions to 0777 before deleting a backup; the permissions stay insecure for subsequent backups.
CVE-2007-6033	Product creates a share with "Everyone: Full Control" permissions, allowing arbitrary program execution.
CVE-2007-5544	Product uses "Everyone: Full Control" permissions for memory-mapped files (shared memory) in inter-process communication, allowing attackers to tamper with a session.
CVE-2005-4868	Database product uses read/write permissions for everyone for its shared memory, allowing theft of credentials.
CVE-2004-1714	Security product uses "Everyone: Full Control" permissions for its configuration files.
CVE-2001-0006	"Everyone: Full Control" permissions assigned to a mutex allows users to disable network connectivity.
CVE-2002-0969	Chain: database product contains buffer overflow that is only reachable through a .ini configuration file - which has "Everyone: Full Control" permissions.

Potential Mitigations

Phase: Implementation

When using a critical resource such as a configuration file, check to see if the resource has insecure permissions (such as being modifiable by any regular user), and generate an error or even exit the software if there is a possibility that the resource could have been modified by an unauthorized party.

Phase: Architecture and Design

Divide your application into anonymous, normal, privileged, and administrative areas. Reduce the attack surface by carefully defining distinct user groups, privileges, and/or roles. Map these against data, functionality, and the related resources. Then set the permissions accordingly. This will allow you to maintain more fine-grained control over your resources.

Phases: Implementation; Installation

During program startup, explicitly set the default permissions or umask to the most restrictive setting possible. Also set the appropriate permissions during program installation. This will prevent you from inheriting insecure permissions from any user who installs or runs the program.

Phase: System Configuration

For all configuration files, executables, and libraries, make sure that they are only readable and writable by the software's administrator.

Phase: Documentation

Do not suggest insecure configuration changes in your documentation, especially if those configurations can extend to resources and other software that are outside the scope of your own software.

Phase: Installation

Do not assume that the system administrator will manually change the configuration to the settings that you recommend in the manual.

Phase: Testing

Use tools and techniques that require manual (human) analysis, such as penetration testing, threat modeling, and interactive tools that allow the tester to record and modify an active session. These may be more effective than strictly automated techniques. This is especially the case with weaknesses that are related to design and business rules.

Phase: Testing

Use monitoring tools that examine the software's process as it interacts with the operating system and the network. This technique is useful in cases when source code is unavailable, if the software was not developed by you, or if you want to verify that the build phase did not introduce any new weaknesses. Examples include debuggers that directly attach to the running process; system-call tracing utilities such as truss (Solaris) and strace (Linux); system activity monitors such as FileMon, RegMon, Process Monitor, and other Sysinternals utilities (Windows); and sniffers and protocol analyzers that monitor network traffic.

Attach the monitor to the process and watch for library functions or system calls on OS resources such as files, directories, and shared memory. Examine the arguments to these calls to infer which permissions are being used.

Note that this technique is only useful for permissions issues related to system resources. It is not likely to detect application-level business rules that are related to permissions, such as if a user of a blog system marks a post as "private," but the blog system inadvertently marks it as "public."

Phases: Testing; System Configuration

Ensure that your software runs properly under the Federal Desktop Core Configuration (FDCC) or an equivalent hardening configuration guide, which many organizations use to limit the attack surface and potential risk of deployed software.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Category	275	Permission Issues	Development Concepts (primary)699
ChildOf	Weakness Class	668	Exposure of Resource to Wrong Sphere	Research Concepts (primary)1000
ChildOf	Category	753	2009 Top 25 - Porous Defenses	Weaknesses in the 2009 CWE/SANS Top 25 Most Dangerous Programming Errors (primary)750
ChildOf	Category	803	2010 Top 25 - Porous Defenses	Weaknesses in the 2010 CWE/SANS Top 25 Most Dangerous Programming Errors (primary)800
RequiredBy	Compound Element: Composite	689	Permission Race Condition During Resource Copy	Research Concepts1000
ParentOf	Weakness Variant	276	Incorrect Default Permissions	Research Concepts (primary)1000
ParentOf	Weakness Variant	277	Insecure Inherited Permissions	Research Concepts (primary)1000
ParentOf	Weakness Variant	278	Insecure Preserved Inherited Permissions	Research Concepts (primary)1000
ParentOf	Weakness Variant	279	Incorrect Execution- Assigned Permissions	Research Concepts (primary)1000
ParentOf	Weakness Base	281	Improper Preservation of Permissions	Research Concepts (primary)1000

Related Attack Patterns

CAPEC-ID	Attack Pattern Name	(CAPEC Version: 1.5)
232	Exploitation of Privilege/Trust	
1	Accessing Functionality Not Properly Constrained by ACLs	
17	Accessing, Modifying or Executing Executable Files	
60	Reusing Session IDs (aka Session Replay)	
61	Session Fixation	
62	Cross Site Request Forgery (aka Session Riding)	
122	Exploitation of Authorization	
180	Exploiting Incorrectly Configured Access Control Security Levels	
234	Hijacking a privileged process	

References

Mark Dowd, John McDonald and Justin Schuh. "The Art of Software Security Assessment". Chapter 9, "File Permissions." Page 495.. 1st Edition. Addison Wesley. 2006.

John Viega and Gary McGraw. "Building Secure Software". Chapter 8, "Access Control." Page 194.. 1st Edition. Addison-Wesley. 2002.

Maintenance Notes

The relationships between privileges, permissions, and actors (e.g. users and groups) need further refinement within the Research view. One complication is that these concepts apply to two different pillars, related to control of resources (CWE-664) and protection mechanism failures (CWE-396).

Content History

Submissions			
Submission Date	Submitter	Organization	Source
2008-09-08			Internal CWE Team
	new weakness-focused entry for Research view.		
Modifications			
Modification Date	Modifier	Organization	Source
2009-01-12	CWE Content Team	MITRE	Internal
	updated Description, Likelihood of Exploit, Name, Potential Mitigations, Relationships		
2009-03-10	CWE Content Team	MITRE	Internal
	updated Potential Mitigations, Related Attack Patterns		
2009-05-27	CWE Content Team	MITRE	Internal
	updated Name		
2009-12-28	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Demonstrative Examples, Detection Factors, Modes of Introduction, Observed Examples, Potential Mitigations, References		
2010-02-16	CWE Content Team	MITRE	Internal
	updated Relationships		
2010-04-05	CWE Content Team	MITRE	Internal
	updated Potential Mitigations, Related Attack Patterns		
Previous Entry Names			
Change Date	Previous Entry Name		
2009-01-12	Insecure Permission Assignment for Resource		
2009-05-27	Insecure Permission Assignment for Critical Resource		

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Information Leak Through Comments

Weakness ID: 615 (Weakness Variant)

Status: Incomplete

Description

Description Summary

While adding general comments is very useful, some programmers tend to leave important data, such as: filenames related to the web application, old links or links which were not meant to be browsed by users, old code fragments, etc.

Extended Description

An attacker who finds these comments can map the application's structure and files, expose hidden parts of the site, and study the fragments of code to reverse engineer the application, which may help develop further attacks against the site.

Time of Introduction

Implementation

Demonstrative Examples

Example 1

The following comment, embedded in a JSP, will be displayed in the resulting HTML output.

(Bad Code)

Example Languages: **HTML and JSP**

```
<!-- FIXME: calling this with more than 30 args kills the JDBC server -->
```

Observed Examples

Reference	Description
CVE-2007-6197	Version numbers and internal hostnames leaked in HTML comments.
CVE-2007-4072	CMS places full pathname of server in HTML comment.
CVE-2009-2431	blog software leaks real username in HTML comment.

Potential Mitigations

Remove comments which have sensitive information about the design/implementation of the application. Some of the comments may be exposed to the user and affect the security posture of the application.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Weakness Variant	540	Information Leak Through Source Code	Development Concepts (primary)699 Research Concepts (primary)1000

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	Anonymous Tool Vendor (under NDA)		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Sean Eidemiller	Cigital	External
	added/updated demonstrative examples		
2008-07-01	Eric Dalci	Cigital	External
	updated Potential Mitigations, Time of Introduction		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Relationships, Taxonomy Mappings		
2008-10-14	CWE Content Team	MITRE	Internal
	updated Description		
2009-03-10	CWE Content Team	MITRE	Internal

	updated Demonstrative Examples		
2009-07-27	CWE Content Team	MITRE	Internal
	updated Observed Examples, Taxonomy Mappings		

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Unchecked Return Value

Risk

What might happen

A program that does not check function return values could cause the application to enter an undefined state. This could lead to unexpected behavior and unintended consequences, including inconsistent data, system crashes or other error-based exploits.

Cause

How does it happen

The application calls a system function, but does not receive or check the result of this function. These functions often return error codes in the result, or share other status codes with its caller. The application simply ignores this result value, losing this vital information.

General Recommendations

How to avoid it

- Always check the result of any called function that returns a value, and verify the result is an expected value.
 - Ensure the calling function responds to all possible return values.
 - Expect runtime errors and handle them gracefully. Explicitly define a mechanism for handling unexpected errors.
-

Source Code Examples

CPP

Unchecked Memory Allocation

```
buff = (char*) malloc(size);
strncpy(buff, source, size);
```

Safer Memory Allocation

```
buff = (char*) malloc(size+1);
if (buff==NULL) exit(1);

strncpy(buff, source, size);
buff[size] = '\0';
```

Use of sizeof() on a Pointer Type

Weakness ID: 467 (*Weakness Variant*)

Status: Draft

Description

Description Summary

The code calls sizeof() on a malloced pointer type, which always returns the wordsize/8. This can produce an unexpected result if the programmer intended to determine how much memory has been allocated.

Time of Introduction

Implementation

Applicable Platforms

Languages

C

C++

Common Consequences

Scope	Effect
Integrity	This error can often cause one to allocate a buffer that is much smaller than what is needed, leading to resultant weaknesses such as buffer overflows.

Likelihood of Exploit

High

Demonstrative Examples

Example 1

Care should be taken to ensure sizeof returns the size of the data structure itself, and not the size of the pointer to the data structure.

In this example, sizeof(foo) returns the size of the pointer.

(Bad Code)

Example Languages: C and C++

```
double *foo;
...
foo = (double *)malloc(sizeof(foo));
```

In this example, sizeof(*foo) returns the size of the data structure and not the size of the pointer.

(Good Code)

Example Languages: C and C++

```
double *foo;
...
foo = (double *)malloc(sizeof(*foo));
```

Example 2

This example defines a fixed username and password. The AuthenticateUser() function is intended to accept a username and a password from an untrusted user, and check to ensure that it matches the username and password. If the username and password match, AuthenticateUser() is intended to indicate that authentication succeeded.

(Bad Code)

/ Ignore CWE-259 (hard-coded password) and CWE-309 (use of password system for authentication) for this example. */*

```
char *username = "admin";
char *pass = "password";

int AuthenticateUser(char *inUser, char *inPass) {
```

```
printf("Sizeof username = %d\n", sizeof(username));
printf("Sizeof pass = %d\n", sizeof(pass));

if (strcmp(username, inUser, sizeof(username))) {
printf("Auth failure of username using sizeof\n");
return(AUTH_FAIL);
}
/* Because of CWE-467, the sizeof returns 4 on many platforms and architectures. */
if (! strcmp(pass, inPass, sizeof(pass))) {
printf("Auth success of password using sizeof\n");
return(AUTH_SUCCESS);
}
else {
printf("Auth fail of password using sizeof\n");
return(AUTH_FAIL);
}
}

int main (int argc, char **argv)
{
int authResult;

if (argc < 3) {
ExitError("Usage: Provide a username and password");
}
authResult = AuthenticateUser(argv[1], argv[2]);
if (authResult != AUTH_SUCCESS) {
ExitError("Authentication failed");
}
else {
DoAuthenticatedTask(argv[1]);
}
}
```

In `AuthenticateUser()`, because `sizeof()` is applied to a parameter with an array type, the `sizeof()` call might return 4 on many modern architectures. As a result, the `strcmp()` call only checks the first four characters of the input password, resulting in a partial comparison (CWE-187), leading to improper authentication (CWE-287).

Because of the partial comparison, any of these passwords would still cause authentication to succeed for the "admin" user:

(Attack)

```
pass5
passABCDEFGH
passWORD
```

Because only 4 characters are checked, this significantly reduces the search space for an attacker, making brute force attacks more feasible.

The same problem also applies to the username, so values such as "adminXYZ" and "administrator" will succeed for the username.

Potential Mitigations

Phase: Implementation

Use expressions such as "`sizeof(*pointer)`" instead of "`sizeof(pointer)`", unless you intend to run `sizeof()` on a pointer type to gain some platform independence or if you are allocating a variable on the stack.

Other Notes

The use of `sizeof()` on a pointer can sometimes generate useful information. An obvious case is to find out the wordsize on a platform. More often than not, the appearance of `sizeof(pointer)` indicates a bug.

Weakness Ordinalities

Ordinality	Description
Primary	(where the weakness exists independent of other weaknesses)

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Category	465	Pointer Issues	Development Concepts (primary)699
ChildOf	Weakness Class	682	Incorrect Calculation	Research Concepts (primary)1000
ChildOf	Category	737	CERT C Secure Coding Section 03 - Expressions (EXP)	Weaknesses Addressed by the CERT C Secure Coding Standard (primary)734
ChildOf	Category	740	CERT C Secure Coding Section 06 - Arrays (ARR)	Weaknesses Addressed by the CERT C Secure Coding Standard734
CanPrecede	Weakness Base	131	Incorrect Calculation of Buffer Size	Research Concepts1000

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
CLASP			Use of sizeof() on a pointer type
CERT C Secure Coding	ARR01-C		Do not apply the sizeof operator to a pointer when taking the size of an array
CERT C Secure Coding	EXP01-C		Do not take the size of a pointer to determine the size of the pointed-to type

White Box Definitions

A weakness where code path has:

1. end statement that passes an identity of a dynamically allocated memory resource to a sizeof operator
2. start statement that allocates the dynamically allocated memory resource

References

Robert Seacord. "EXP01-A. Do not take the sizeof a pointer to determine the size of a type".
<https://www.securecoding.cert.org/confluence/display/seccode/EXP01-A.+Do+not+take+the+sizeof+a+pointer+to+determine+the+size+of+a+type>.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	CLASP		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci updated Time of Introduction	Cigital	External
2008-08-01	 added/updated white box definitions	KDM Analytics	External
2008-09-08	CWE Content Team updated Applicable Platforms, Common Consequences, Relationships, Other Notes, Taxonomy Mappings, Weakness Ordinalities	MITRE	Internal
2008-11-24	CWE Content Team updated Relationships, Taxonomy Mappings	MITRE	Internal
2009-03-10	CWE Content Team updated Demonstrative Examples	MITRE	Internal
2009-12-28	CWE Content Team updated Demonstrative Examples	MITRE	Internal
2010-02-16	CWE Content Team updated Relationships	MITRE	Internal

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NULL Pointer Dereference

Risk

What might happen

A null pointer dereference is likely to cause a run-time exception, a crash, or other unexpected behavior.

Cause

How does it happen

Variables which are declared without being assigned will implicitly retain a null value until they are assigned. The null value can also be explicitly set to a variable, to ensure clear out its contents. Since null is not really a value, it may not have object variables and methods, and any attempt to access contents of a null object, instead of verifying it is set beforehand, will result in a null pointer dereference exception.

General Recommendations

How to avoid it

- For any variable that is created, ensure all logic flows between declaration and use assign a non-null value to the variable first.
 - Enforce null checks on any received variable or object before it is dereferenced, to ensure it does not contain a null assigned to it elsewhere.
 - Consider the need to assign null values in order to overwrite initialized variables. Consider reassigning or releasing these variables instead.
-

Source Code Examples

Improper Validation of Array Index

Weakness ID: 129 (*Weakness Base*)

Status: Draft

Description

Description Summary

The product uses untrusted input when calculating or using an array index, but the product does not validate or incorrectly validates the index to ensure the index references a valid position within the array.

Alternate Terms

out-of-bounds array index

index-out-of-range

array index underflow

Time of Introduction

Implementation

Applicable Platforms

Languages

C: (*Often*)

C++: (*Often*)

Language-independent

Common Consequences

Scope	Effect
Integrity Availability	Unchecked array indexing will very likely result in the corruption of relevant memory and perhaps instructions, leading to a crash, if the values are outside of the valid memory area.
Integrity	If the memory corrupted is data, rather than instructions, the system will continue to function with improper values.
Confidentiality Integrity	Unchecked array indexing can also trigger out-of-bounds read or write operations, or operations on the wrong objects; i.e., "buffer overflows" are not always the result. This may result in the exposure or modification of sensitive data.
Integrity	If the memory accessible by the attacker can be effectively controlled, it may be possible to execute arbitrary code, as with a standard buffer overflow and possibly without the use of large inputs if a precise index can be controlled.
Integrity Availability Confidentiality	A single fault could allow either an overflow (CWE-788) or underflow (CWE-786) of the array index. What happens next will depend on the type of operation being performed out of bounds, but can expose sensitive information, cause a system crash, or possibly lead to arbitrary code execution.

Likelihood of Exploit

High

Detection Methods

Automated Static Analysis

This weakness can often be detected using automated static analysis tools. Many modern tools use data flow analysis or constraint-based techniques to minimize the number of false positives.

Automated static analysis generally does not account for environmental considerations when reporting out-of-bounds memory operations. This can make it difficult for users to determine which warnings should be investigated first. For example, an analysis tool might report array index errors that originate from command line arguments in a program that is not expected to run with setuid or other special privileges.

Effectiveness: High

This is not a perfect solution, since 100% accuracy and coverage are not feasible.

Automated Dynamic Analysis

This weakness can be detected using dynamic tools and techniques that interact with the software using large test suites with many diverse inputs, such as fuzz testing (fuzzing), robustness testing, and fault injection. The software's operation may slow down, but it should not become unstable, crash, or generate incorrect results.

Black Box

Black box methods might not get the needed code coverage within limited time constraints, and a dynamic test might not produce any noticeable side effects even if it is successful.

Demonstrative Examples

Example 1

The following C/C++ example retrieves the sizes of messages for a pop3 mail server. The message sizes are retrieved from a socket that returns in a buffer the message number and the message size, the message number (num) and size (size) are extracted from the buffer and the message size is placed into an array using the message number for the array index.

(Bad Code)

Example Language: C

```
/* capture the sizes of all messages */
int getsizes(int sock, int count, int *sizes) {
    ...
    char buf[BUFFER_SIZE];
    int ok;
    int num, size;

    // read values from socket and added to sizes array
    while ((ok = gen_recv(sock, buf, sizeof(buf))) == 0)
    {

        // continue read from socket until buf only contains '.'
        if (DOTLINE(buf))
            break;
        else if (sscanf(buf, "%d %d", &num, &size) == 2)
            sizes[num - 1] = size;
        }
    ...
}
```

In this example the message number retrieved from the buffer could be a value that is outside the allowable range of indices for the array and could possibly be a negative number. Without proper validation of the value to be used for the array index an array overflow could occur and could potentially lead to unauthorized access to memory addresses and system crashes. The value of the array index should be validated to ensure that it is within the allowable range of indices for the array as in the following code.

(Good Code)

Example Language: C

```
/* capture the sizes of all messages */
int getsizes(int sock, int count, int *sizes) {
    ...
    char buf[BUFFER_SIZE];
    int ok;
    int num, size;

    // read values from socket and added to sizes array
    while ((ok = gen_recv(sock, buf, sizeof(buf))) == 0)
    {

        // continue read from socket until buf only contains '.'
        if (DOTLINE(buf))
```

```
break;
else if (sscanf(buf, "%d %d", &num, &size) == 2) {
if (num > 0 && num <= (unsigned)count)
sizes[num - 1] = size;
else
/* warn about possible attempt to induce buffer overflow */
report(stderr, "Warning: ignoring bogus data for message sizes returned by server.\n");
}
}
...
}
```

Example 2

In the code snippet below, an unchecked integer value is used to reference an object in an array.

(Bad Code)

Example Language: Java

```
public String getValue(int index) {
return array[index];
}
```

If index is outside of the range of the array, this may result in an `ArrayIndexOutOfBoundsException` Exception being raised.

Example 3

In the following Java example the method `displayProductSummary` is called from a Web service servlet to retrieve product summary information for display to the user. The servlet obtains the integer value of the product number from the user and passes it to the `displayProductSummary` method. The `displayProductSummary` method passes the integer value of the product number to the `getProductSummary` method which obtains the product summary from the array object containing the project summaries using the integer value of the product number as the array index.

(Bad Code)

Example Language: Java

// Method called from servlet to obtain product information

```
public String displayProductSummary(int index) {

String productSummary = new String("");

try {
String productSummary = getProductSummary(index);

} catch (Exception ex) {...}

return productSummary;
}

public String getProductSummary(int index) {
return products[index];
}
```

In this example the integer value used as the array index that is provided by the user may be outside the allowable range of indices for the array which may provide unexpected results or may cause the application to fail. The integer value used for the array index should be validated to ensure that it is within the allowable range of indices for the array as in the following code.

(Good Code)

Example Language: Java

// Method called from servlet to obtain product information

```
public String displayProductSummary(int index) {

String productSummary = new String("");
```

```
try {
String productSummary = getProductSummary(index);

} catch (Exception ex) {...}

return productSummary;
}

public String getProductSummary(int index) {
String productSummary = "";

if ((index >= 0) && (index < MAX_PRODUCTS)) {
productSummary = products[index];
}
else {
System.err.println("index is out of bounds");
throw new IndexOutOfBoundsException();
}

return productSummary;
}
```

An alternative in Java would be to use one of the collection objects such as `ArrayList` that will automatically generate an exception if an attempt is made to access an array index that is out of bounds.

(Good Code)

Example Language: Java

```
ArrayList productArray = new ArrayList(MAX_PRODUCTS);
...
try {
productSummary = (String) productArray.get(index);
} catch (IndexOutOfBoundsException ex) {...}
```

Observed Examples

Reference	Description
CVE-2005-0369	large ID in packet used as array index
CVE-2001-1009	negative array index as argument to POP LIST command
CVE-2003-0721	Integer signedness error leads to negative array index
CVE-2004-1189	product does not properly track a count and a maximum number, which can lead to resultant array index overflow.
CVE-2007-5756	chain: device driver for packet-capturing software allows access to an unintended IOCTL with resultant array index error.

Potential Mitigations

Phase: Architecture and Design

Strategies: Input Validation; Libraries or Frameworks

Use an input validation framework such as Struts or the OWASP ESAPI Validation API. If you use Struts, be mindful of weaknesses covered by the CWE-101 category.

Phase: Architecture and Design

For any security checks that are performed on the client side, ensure that these checks are duplicated on the server side, in order to avoid CWE-602. Attackers can bypass the client-side checks by modifying values after the checks have been performed, or by changing the client to remove the client-side checks entirely. Then, these modified values would be submitted to the server.

Even though client-side checks provide minimal benefits with respect to server-side security, they are still useful. First, they can support intrusion detection. If the server receives input that should have been rejected by the client, then it may be an indication of an attack. Second, client-side error-checking can provide helpful feedback to the user about the expectations for valid input. Third, there may be a reduction in server-side processing time for accidental input errors, although this is typically a small savings.

Phase: Requirements

Strategy: Language Selection

Use a language with features that can automatically mitigate or eliminate out-of-bounds indexing errors.

For example, Ada allows the programmer to constrain the values of a variable and languages such as Java and Ruby will allow the programmer to handle exceptions when an out-of-bounds index is accessed.

Phase: Implementation

Strategy: Input Validation

Assume all input is malicious. Use an "accept known good" input validation strategy (i.e., use a whitelist). Reject any input that does not strictly conform to specifications, or transform it into something that does. Use a blacklist to reject any unexpected inputs and detect potential attacks.

When accessing a user-controlled array index, use a stringent range of values that are within the target array. Make sure that you do not allow negative values to be used. That is, verify the minimum as well as the maximum of the range of acceptable values.

Phase: Implementation

Be especially careful to validate your input when you invoke code that crosses language boundaries, such as from an interpreted language to native code. This could create an unexpected interaction between the language boundaries. Ensure that you are not violating any of the expectations of the language with which you are interfacing. For example, even though Java may not be susceptible to buffer overflows, providing a large argument in a call to native code might trigger an overflow.

Weakness Ordinalities

Ordinality	Description
Resultant	The most common condition situation leading to unchecked array indexing is the use of loop index variables as buffer indexes. If the end condition for the loop is subject to a flaw, the index can grow or shrink unbounded, therefore causing a buffer overflow or underflow. Another common situation leading to this condition is the use of a function's return value, or the resulting value of a calculation directly as an index in to a buffer.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Weakness Class	20	Improper Input Validation	Development Concepts (primary)699 Research Concepts (primary)1000
ChildOf	Category	189	Numeric Errors	Development Concepts699
ChildOf	Category	633	Weaknesses that Affect Memory	Resource-specific Weaknesses (primary)631
ChildOf	Category	738	CERT C Secure Coding Section 04 - Integers (INT)	Weaknesses Addressed by the CERT C Secure Coding Standard (primary)734
ChildOf	Category	740	CERT C Secure Coding Section 06 - Arrays (ARR)	Weaknesses Addressed by the CERT C Secure Coding Standard734
ChildOf	Category	802	2010 Top 25 - Risky Resource Management	Weaknesses in the 2010 CWE/SANS Top 25 Most Dangerous Programming Errors (primary)800
CanPrecede	Weakness Class	119	Failure to Constrain Operations within the Bounds of a Memory Buffer	Research Concepts1000
CanPrecede	Weakness Variant	789	Uncontrolled Memory Allocation	Research Concepts1000
PeerOf	Weakness Base	124	Buffer Underwrite ('Buffer Underflow')	Research Concepts1000

Theoretical Notes

An improperly validated array index might lead directly to the always-incorrect behavior of "access of array using out-of-bounds index."

Affected Resources

Memory

f Causal Nature

Explicit

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
CLASP			Unchecked array indexing
PLOVER			INDEX - Array index overflow
CERT C Secure Coding	ARR00-C		Understand how arrays work
CERT C Secure Coding	ARR30-C		Guarantee that array indices are within the valid range
CERT C Secure Coding	ARR38-C		Do not add or subtract an integer to a pointer if the resulting value does not refer to a valid array element
CERT C Secure Coding	INT32-C		Ensure that operations on signed integers do not result in overflow

Related Attack Patterns

CAPEC-ID	Attack Pattern Name	(CAPEC Version: 1.5)
100	Overflow Buffers	

References

[REF-11] M. Howard and D. LeBlanc. "Writing Secure Code". Chapter 5, "Array Indexing Errors" Page 144. 2nd Edition. Microsoft. 2002.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	CLASP		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Sean Eidemiller	Cigital	External
	added/updated demonstrative examples		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Alternate Terms, Applicable Platforms, Common Consequences, Relationships, Other Notes, Taxonomy Mappings, Weakness Ordinalities		
2008-11-24	CWE Content Team	MITRE	Internal
	updated Relationships, Taxonomy Mappings		
2009-01-12	CWE Content Team	MITRE	Internal
	updated Common Consequences		
2009-10-29	CWE Content Team	MITRE	Internal
	updated Description, Name, Relationships		
2009-12-28	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Observed Examples, Other Notes, Potential Mitigations, Theoretical Notes, Weakness Ordinalities		
2010-02-16	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Demonstrative Examples, Detection Factors, Likelihood of Exploit, Potential Mitigations, References, Related Attack Patterns, Relationships		
2010-04-05	CWE Content Team	MITRE	Internal
	updated Related Attack Patterns		
Previous Entry Names			
Change Date	Previous Entry Name		
2009-10-29	Unchecked Array Indexing		

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Scanned Languages

Language	Hash Number	Change Date
CPP	4541647240435660	1/6/2025
Common	0105849645654507	1/6/2025