vul_files_20 Scan Report

Project Name	vul_files_20
Scan Start	Tuesday, January 7, 2025 10:17:38 AM
Preset	Checkmarx Default
Scan Time	01h:36m:20s
Lines Of Code Scanned	295798
Files Scanned	66
Report Creation Time	Tuesday, January 7, 2025 11:25:01 AM
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22
Team	CxServer
Checkmarx Version	8.7.0
Scan Type	Full
Source Origin	LocalPath
Density	4/1000 (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

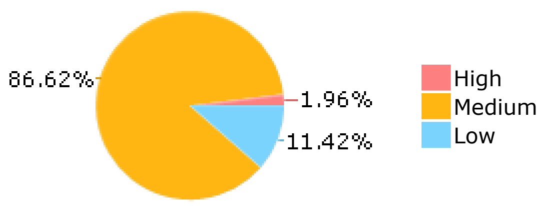
Results Limit

Results limit per query was set to 50

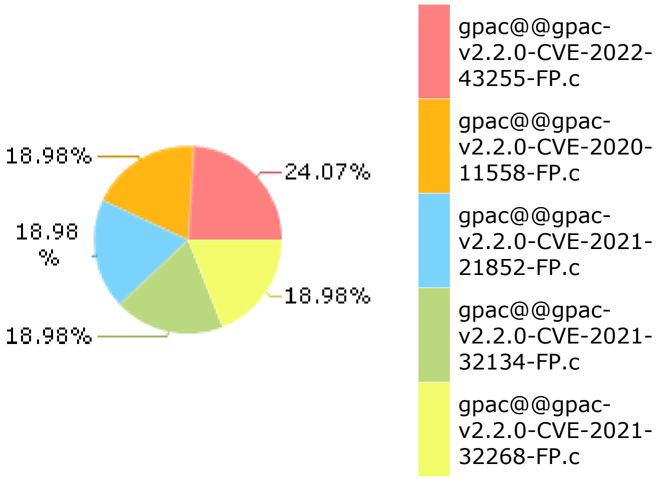
Selected Queries

Selected queries are listed in Result Summary

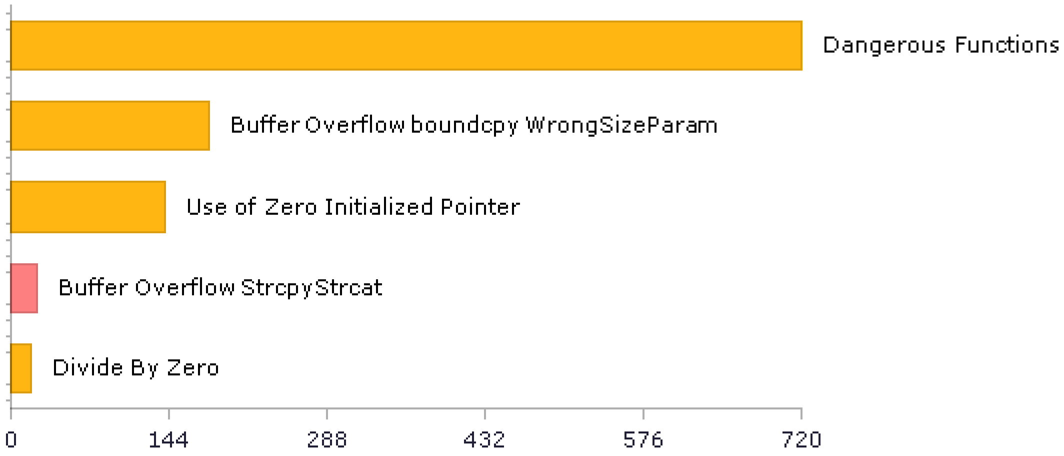
Result Summary



Most Vulnerable Files



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	248	221
A2-Broken Authentication	App. Specific	EASY	COMMON	AVERAGE	SEVERE	App. Specific	52	52
A3-Sensitive Data Exposure	App. Specific	AVERAGE	WIDESPREAD	AVERAGE	SEVERE	App. Specific	0	0
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	720	720
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	0	0
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	720	720
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	207	186
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.	0	0
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.	52	52
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.	0	0
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.	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 - NIST SP 800-53

Category	Issues Found	Best Fix Locations
AC-12 Session Termination (P2)	0	0
AC-3 Access Enforcement (P1)	52	52
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)	0	0
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)	0	0
SC-4 Information in Shared Resources (P1)	0	0
SC-5 Denial of Service Protection (P1)*****	174	63
SC-8 Transmission Confidentiality and Integrity (P1)	0	0
SI-10 Information Input Validation (P1)*****	60	41
SI-11 Error Handling (P2)*****	19	19
SI-15 Information Output Filtering (P0)	0	0
SI-16 Memory Protection (P1)	3	1

***** 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 wasnt 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

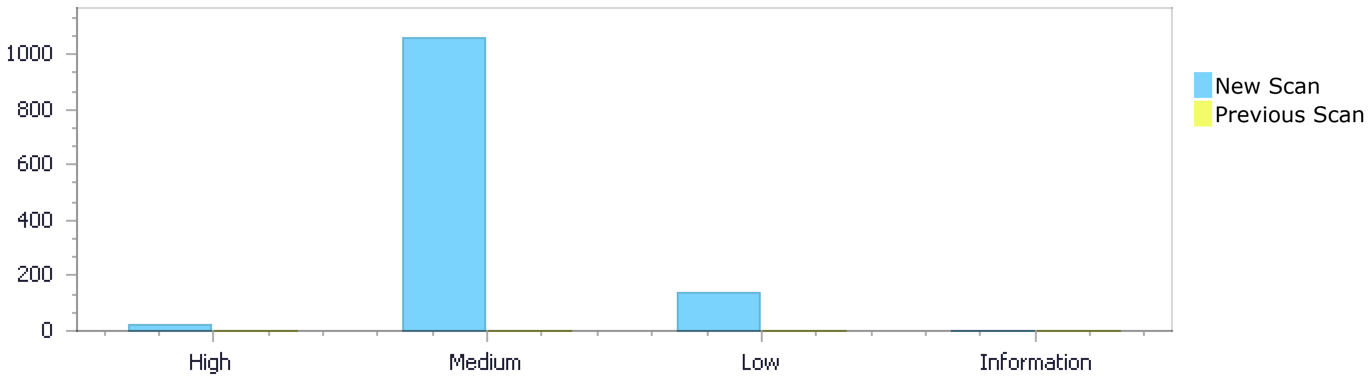
Category	Issues Found	Best Fix Locations
Must audit	0	0
Check	0	0
Optional	0	0

Results Distribution By Status

First scan of the project

	High	Medium	Low	Information	Total
New Issues	24	1,062	140	0	1,226
Recurrent Issues	0	0	0	0	0
Total	24	1,062	140	0	1,226

Fixed Issues	0	0	0	0	0



Results Distribution By State

	High	Medium	Low	Information	Total
Confirmed	0	0	0	0	0
Not Exploitable	0	0	0	0	0
To Verify	24	1,062	140	0	1,226
Urgent	0	0	0	0	0
Proposed Not Exploitable	0	0	0	0	0
Total	24	1,062	140	0	1,226

Result Summary

Vulnerability Type	Occurrences	Severity
Buffer Overflow StrcpyStrcat	24	High
Dangerous Functions	720	Medium
Buffer Overflow boundcpy WrongSizeParam	180	Medium
Use of Zero Initialized Pointer	141	Medium
Divide By Zero	18	Medium

Buffer Overflow Loops	3	Medium
Improper Resource Access Authorization	52	Low
NULL Pointer Dereference	33	Low
Unchecked Array Index	28	Low
Unchecked Return Value	19	Low
Potential Precision Problem	8	Low

10 Most Vulnerable Files

High and Medium Vulnerabilities

File Name	Issues Found
gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	90
gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	78
gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	78
gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	78
gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	78
gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	78
gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	78
gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	78
gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	78
gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	63

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=1000028&projectid=22&pathid=1
Status	New

The size of the buffer used by revert_cache_file in item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to mpd_src, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4566	4522
Object	mpd_src	item_path

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.   GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
```

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method static void revert_cache_file(char *item_path)

```
....
4522.         strcpy(szPATH, item_path);
```

Buffer Overflow StrcpyStrcat\Path 2:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22

	&pathid=2
Status	New

The size of the buffer used by revert_cache_file in item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4566	4522
Object	output_dir	item_path

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.   GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
```

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method static void revert_cache_file(char *item_path)

```
....
4522.        strcpy(szPATH, item_path);
```

Buffer Overflow StrcpyStrcat\Path 3:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=3
Status	New

The size of the buffer used by revert_cache_file in item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that revert_cache_file passes to item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4509	4522
Object	item_path	item_path

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method static void revert_cache_file(char *item_path)

```
....
4509.  static void revert_cache_file(char *item_path)
....
4522.         strcpy(szPATH, item_path);
```

Buffer Overflow StrcpyStrcat\Path 4:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=4
Status	New

The size of the buffer used by revert_cache_file in szPATH, at line 4509 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to mpd_src, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4566	4523
Object	mpd_src	szPATH

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c

Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.  GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
```

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c

Method static void revert_cache_file(char *item_path)

```
....
4523.         strcat(szPATH, ".txt");
```

Buffer Overflow StrcpyStrcat\Path 5:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=5
Status	New

The size of the buffer used by revert_cache_file in szPATH, at line 4509 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4566	4523
Object	output_dir	szPATH

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.   GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
```

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method static void revert_cache_file(char *item_path)

```
....
4523.        strcat(szPATH, ".txt");
```

Buffer Overflow StrcpyStrcat\Path 6:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=6
Status	New

The size of the buffer used by revert_cache_file in szPATH, at line 4509 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that revert_cache_file passes to item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4509	4523
Object	item_path	szPATH

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method static void revert_cache_file(char *item_path)

```
....
4509.   static void revert_cache_file(char *item_path)
....
4523.        strcat(szPATH, ".txt");
```

Buffer Overflow StrcpyStrcat\Path 7:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=7
Status	New

The size of the buffer used by rip_mpd in sess, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to mpd_src, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4566	4606
Object	mpd_src	sess

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.  GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
....
4606.        strcpy(szName, gf_dm_sess_get_cache_name(sess) );
```

Buffer Overflow StrcpyStrcat\Path 8:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=8
Status	New

The size of the buffer used by rip_mpd in gf_dm_sess_get_cache_name, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to mpd_src, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4566	4606
Object	mpd_src	gf_dm_sess_get_cache_name

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.  GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
....
4606.       strcpy(szName, gf_dm_sess_get_cache_name(sess) );
```

Buffer Overflow StrcpyStrcat\Path 9:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=9
Status	New

The size of the buffer used by rip_mpd in output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4566	4581
Object	output_dir	output_dir

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.  GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
....
4581.             strcpy(szName, output_dir);
```

Buffer Overflow StrcpyStrcat\Path 10:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=10
Status	New

The size of the buffer used by rip_mpd in szName, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4566	4606
Object	output_dir	szName

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.  GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
....
4606.        strcpy(szName, gf_dm_sess_get_cache_name(sess) );
```

Buffer Overflow StrcpyStrcat\Path 11:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=11
Status	New

The size of the buffer used by revert_cache_file in item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to mpd_src, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4566	4522
Object	mpd_src	item_path

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.  GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
```

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void revert_cache_file(char *item_path)

```
....
4522.        strcpy(szPATH, item_path);
```

Buffer Overflow StrcpyStrcat\Path 12:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=12
Status	New

The size of the buffer used by revert_cache_file in item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4566	4522
Object	output_dir	item_path

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.  GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
```

File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c

Method static void revert_cache_file(char *item_path)

```
....
4522.        strcpy(szPATH, item_path);
```

Buffer Overflow StrcpyStrcat\Path 13:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=13
Status	New

The size of the buffer used by revert_cache_file in item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that revert_cache_file passes to item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4509	4522
Object	item_path	item_path

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method static void revert_cache_file(char *item_path)

```
....
4509.   static void revert_cache_file(char *item_path)
....
4522.         strcpy(szPATH, item_path);
```

Buffer Overflow StrcpyStrcat\Path 14:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=14
Status	New

The size of the buffer used by revert_cache_file in szPATH, at line 4509 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to mpd_src, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4566	4523
Object	mpd_src	szPATH

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c

Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.   GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
```

▼

File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c

Method static void revert_cache_file(char *item_path)

```
....
4523.         strcat(szPATH, ".txt");
```

Buffer Overflow StrcpyStrcat\Path 15:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=15
Status	New

The size of the buffer used by revert_cache_file in szPATH, at line 4509 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4566	4523
Object	output_dir	szPATH

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.   GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
```

File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method static void revert_cache_file(char *item_path)

```
....
4523.         strcat(szPATH, ".txt");
```

Buffer Overflow StrcpyStrcat\Path 16:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=16
Status	New

The size of the buffer used by revert_cache_file in szPATH, at line 4509 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that revert_cache_file passes to item_path, at line 4509 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4509	4523
Object	item_path	szPATH

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method static void revert_cache_file(char *item_path)

```
....
4509.   static void revert_cache_file(char *item_path)
....
4523.         strcat(szPATH, ".txt");
```

Buffer Overflow StrcpyStrcat\Path 17:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=17
Status	New

The size of the buffer used by rip_mpd in sess, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to mpd_src, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4566	4606
Object	mpd_src	sess

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.  GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
....
4606.       strcpy(szName, gf_dm_sess_get_cache_name(sess) );
```

Buffer Overflow StrcpyStrcat\Path 18:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=18
Status	New

The size of the buffer used by rip_mpd in gf_dm_sess_get_cache_name, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to mpd_src, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4566	4606
Object	mpd_src	gf_dm_sess_get_cache_name

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.   GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
....
4606.         strcpy(szName, gf_dm_sess_get_cache_name(sess) );
```

Buffer Overflow StrcpyStrcat\Path 19:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=19
Status	New

The size of the buffer used by rip_mpd in output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4566	4581
Object	output_dir	output_dir

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.   GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
....
4581.               strcpy(szName, output_dir);
```

Buffer Overflow StrcpyStrcat\Path 20:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=20
Status	New

The size of the buffer used by rip_mpd in szName, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rip_mpd passes to output_dir, at line 4566 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4566	4606
Object	output_dir	szName

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4566.  GF_Err rip_mpd(const char *mpd_src, const char *output_dir)
....
4606.        strcpy(szName, gf_dm_sess_get_cache_name(sess) );
```

Buffer Overflow StrcpyStrcat\Path 21:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=21
Status	New

The size of the buffer used by xmt_parse_url in vals, at line 824 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that xmt_parse_string passes to name, at line 757 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	757	844
Object	name	vals

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
757.  static u32 xmt_parse_string(GF_XMTParser *parser, const char
*name, SFString *val, Bool is_mf, char *a_value)
```

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static u32 xmt_parse_url(GF_XMTParser *parser, const char *name, MFURL *val, GF_Node *owner, Bool is_mf, char *a_value)

```
....
844.        strcpy(value, val->vals[idx].url);
```

Buffer Overflow StrcpyStrcat\Path 22:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22

	&pathid=22
Status	New

The size of the buffer used by xmt_parse_url in vals, at line 824 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that xmt_parse_url passes to name, at line 824 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	824	844
Object	name	vals

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static u32 xmt_parse_url(GF_XMTParser *parser, const char *name, MFURL *val, GF_Node *owner, Bool is_mf, char *a_value)

```
....
824.  static u32 xmt_parse_url(GF_XMTParser *parser, const char *name,
MFURL *val, GF_Node *owner, Bool is_mf, char *a_value)
....
844.        strcpy(value, val->vals[idx].url);
```

Buffer Overflow StrcpyStrcat\Path 23:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=23
Status	New

The size of the buffer used by xmt_strip_name in in, at line 1256 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that xmt_strip_name passes to in, at line 1256 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	1256	1259
Object	in	in

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static void xmt_strip_name(const char *in, char *out)

```
....
1256.  static void xmt_strip_name(const char *in, char *out)
....
1259.       strcpy(out, in);
```

Buffer Overflow StrcpyStrcat\Path 24:

Severity	High
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=24
Status	New

The size of the buffer used by xmt_strip_name in out, at line 1256 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that xmt_strip_name passes to out, at line 1256 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	1256	1259
Object	out	out

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static void xmt_strip_name(const char *in, char *out)

```
....
1256.  static void xmt_strip_name(const char *in, char *out)
....
1259.       strcpy(out, in);
```

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=1000028&projectid=22&pathid=226
Status	New

The dangerous function, memcpy, was found in use at line 331 in gpac@@gpac-v2.0.0-CVE-2024-0322-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.0.0-CVE-2024-0322-TP.c	gpac@@gpac-v2.0.0-CVE-2024-0322-TP.c
Line	386	386
Object	memcpy	memcpy

Code Snippet	
File Name	gpac@@gpac-v2.0.0-CVE-2024-0322-TP.c
Method	GF_Err ac3dmx_process(GF_Filter *filter)

```
....
386.              memcpy(ctx->ac3_buffer + ctx->ac3_buffer_size, data,
pck_size);
```

Dangerous Functions\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=227
Status	New

The dangerous function, memcpy, was found in use at line 331 in gpac@@gpac-v2.0.0-CVE-2024-0322-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.0.0-CVE-2024-0322-TP.c	gpac@@gpac-v2.0.0-CVE-2024-0322-TP.c
Line	462	462
Object	memcpy	memcpy

Code Snippet	
File Name	gpac@@gpac-v2.0.0-CVE-2024-0322-TP.c
Method	GF_Err ac3dmx_process(GF_Filter *filter)

```
....
462.                    memcpy(output, sync, ctx->hdr.framesize);
```

Dangerous Functions\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=228
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	681	681
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
681.        memcpy(ptr->nameURN, tmpName, i + 1);
```

Dangerous Functions\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=229
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	694	694
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
694.              memcpy(ptr->location, tmpName + i + 1, (to_read - i -
1));
```

Dangerous Functions\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=230
Status	New

The dangerous function, memcpy, was found in use at line 3436 in gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	3448	3448
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err elng_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3448.                   memcpy(str, ptr->extended_language, (u32) ptr->size);
```

Dangerous Functions\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=231
Status	New

The dangerous function, memcpy, was found in use at line 8091 in gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	8120	8120
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8120.                   memcpy(map->uuid, ((GF_UUIDBox *)a)->uuid, 16);
```

Dangerous Functions\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=232
Status	New

The dangerous function, memcpy, was found in use at line 9712 in gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	9853	9853
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method static void *sgpd_parse_entry(u32 grouping_type, GF_BitStream *bs, s32 bytes_in_box, u32 entry_size, u32 *total_bytes)

```
....
9853.                         memcpy(ptr->key_info+4, kid, 16);
```

Dangerous Functions\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=233
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	681	681
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
681.          memcpy(ptr->nameURN, tmpName, i + 1);
```

Dangerous Functions\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=234
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	694	694
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
694.            memcpy(ptr->location, tmpName + i + 1, (to_read - i -
1));
```

Dangerous Functions\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=235
Status	New

The dangerous function, memcpy, was found in use at line 3436 in gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	3448	3448
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Err elng_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3448.                   memcpy(str, ptr->extended_language, (u32) ptr-
>size);
```

Dangerous Functions\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22

	&pathid=236
Status	New

The dangerous function, memcpy, was found in use at line 8091 in gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	8120	8120
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8120.                  memcpy(map->uuid, ((GF_UUIDBox *)a)->uuid, 16);
```

Dangerous Functions\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=237
Status	New

The dangerous function, memcpy, was found in use at line 9712 in gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	9853	9853
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method static void *sgpd_parse_entry(u32 grouping_type, GF_BitStream *bs, s32 bytes_in_box, u32 entry_size, u32 *total_bytes)

```
....
9853.                  memcpy(ptr->key_info+4, kid, 16);
```

Dangerous Functions\Path 13:

Severity	Medium
Result State	To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=238
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	681	681
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
681.          memcpy(ptr->nameURN, tmpName, i + 1);
```

Dangerous Functions\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=239
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	694	694
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
694.                memcpy(ptr->location, tmpName + i + 1, (to_read - i - 
1));
```

Dangerous Functions\Path 15:

Severity	Medium
Result State	To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=240
Status	New

The dangerous function, memcpy, was found in use at line 3436 in gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	3448	3448
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method GF_Err elng_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3448.                    memcpy(str, ptr->extended_language, (u32) ptr-
>size);
```

Dangerous Functions\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=241
Status	New

The dangerous function, memcpy, was found in use at line 8091 in gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	8120	8120
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8120.                    memcpy(map->uuid, ((GF_UUIDBox *)a)->uuid, 16);
```

Dangerous Functions\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=242
Status	New

The dangerous function, memcpy, was found in use at line 9712 in gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	9853	9853
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	static void *sgpd_parse_entry(u32 grouping_type, GF_BitStream *bs, s32 bytes_in_box, u32 entry_size, u32 *total_bytes)

```
....
9853.                           memcpy(ptr->key_info+4, kid, 16);
```

Dangerous Functions\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=243
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	681	681
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method	GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
681.            memcpy(ptr->nameURN, tmpName, i + 1);
```

Dangerous Functions\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=244
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	694	694
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
694.            memcpy(ptr->location, tmpName + i + 1, (to_read - i -
1));
```

Dangerous Functions\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=245
Status	New

The dangerous function, memcpy, was found in use at line 3436 in gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	3448	3448
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method GF_Err elng_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3448.                   memcpy(str, ptr->extended_language, (u32) ptr-
>size);
```

Dangerous Functions\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=246
Status	New

The dangerous function, memcpy, was found in use at line 8091 in gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	8120	8120
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method	GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8120.                   memcpy(map->uuid, ((GF_UUIDBox *)a)->uuid, 16);
```

Dangerous Functions\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=247
Status	New

The dangerous function, memcpy, was found in use at line 9712 in gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	9853	9853
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method	static void *sgpd_parse_entry(u32 grouping_type, GF_BitStream *bs, s32 bytes_in_box, u32 entry_size, u32 *total_bytes)

```
....
9853.                   memcpy(ptr->key_info+4, kid, 16);
```

Dangerous Functions\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=248
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	681	681
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
681.         memcpy(ptr->nameURN, tmpName, i + 1);
```

Dangerous Functions\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=249
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	694	694
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
694.                memcpy(ptr->location, tmpName + i + 1, (to_read - i -
1));
```

Dangerous Functions\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=250
Status	New

The dangerous function, memcpy, was found in use at line 3436 in gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	3448	3448
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	GF_Err elng_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3448.                     memcpy(str, ptr->extended_language, (u32) ptr-
>size);
```

Dangerous Functions\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=251
Status	New

The dangerous function, memcpy, was found in use at line 8091 in gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	8120	8120
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8120.                   memcpy(map->uuid, ((GF_UUIDBox *)a)->uuid, 16);
```

Dangerous Functions\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=252
Status	New

The dangerous function, memcpy, was found in use at line 9712 in gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	9853	9853
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	static void *sgpd_parse_entry(u32 grouping_type, GF_BitStream *bs, s32 bytes_in_box, u32 entry_size, u32 *total_bytes)

```
....
9853.                   memcpy(ptr->key_info+4, kid, 16);
```

Dangerous Functions\Path 28:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=253
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	681	681
Object	memcpy	memcpy

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method	GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
681.          memcpy(ptr->nameURN, tmpName, i + 1);
```

Dangerous Functions\Path 29:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=254
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	694	694
Object	memcpy	memcpy

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method	GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
694.                memcpy(ptr->location, tmpName + i + 1, (to_read - i -
1));
```

Dangerous Functions\Path 30:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=255
Status	New

The dangerous function, memcpy, was found in use at line 3436 in gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	3448	3448
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method GF_Err elng_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3448.                memcpy(str, ptr->extended_language, (u32) ptr-
>size);
```

Dangerous Functions\Path 31:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=256
Status	New

The dangerous function, memcpy, was found in use at line 8091 in gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	8120	8120
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8120.                memcpy(map->uuid, ((GF_UUIDBox *)a)->uuid, 16);
```

Dangerous Functions\Path 32:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=257
Status	New

The dangerous function, memcpy, was found in use at line 9712 in gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	9853	9853

Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method	static void *sgpd_parse_entry(u32 grouping_type, GF_BitStream *bs, s32 bytes_in_box, u32 entry_size, u32 *total_bytes)

```
....
9853.                   memcpy(ptr->key_info+4, kid, 16);
```

Dangerous Functions\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=258
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Line	681	681
Object	memcpy	memcpy

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Method	GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
681.         memcpy(ptr->nameURN, tmpName, i + 1);
```

Dangerous Functions\Path 34:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=259
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Line	694	694

Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Method GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
694.            memcpy(ptr->location, tmpName + i + 1, (to_read - i -
1));
```

Dangerous Functions\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=260
Status	New

The dangerous function, memcpy, was found in use at line 3436 in gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Line	3448	3448
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Method GF_Err elng_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3448.                memcpy(str, ptr->extended_language, (u32) ptr-
>size);
```

Dangerous Functions\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=261
Status	New

The dangerous function, memcpy, was found in use at line 8091 in gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c

Line	8120	8120
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Method GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8120.                 memcpy(map->uuid, ((GF_UUIDBox *)a)->uuid, 16);
```

Dangerous Functions\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=262
Status	New

The dangerous function, memcpy, was found in use at line 9712 in gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Line	9853	9853
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Method static void *sgpd_parse_entry(u32 grouping_type, GF_BitStream *bs, s32 bytes_in_box, u32 entry_size, u32 *total_bytes)

```
....
9853.                 memcpy(ptr->key_info+4, kid, 16);
```

Dangerous Functions\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=263
Status	New

The dangerous function, memcpy, was found in use at line 59 in gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c

Line	190	190
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method static GF_Err BD_XReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
190.                        memcpy(&sffield, &targetField, 
sizeof(GF_FieldInfo));
```

Dangerous Functions\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=264
Status	New

The dangerous function, memcpy, was found in use at line 295 in gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Line	335	335
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method static GF_Err BD_DecMultipleIndexReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
335.        memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Dangerous Functions\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=265
Status	New

The dangerous function, memcpy, was found in use at line 591 in gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43043-	gpac@@gpac-v2.2.0-CVE-2022-43043-

	FP.c	FP.c
Line	630	630
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method static GF_Err BD_DecIndexInsert(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
630.        memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Dangerous Functions\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=266
Status	New

The dangerous function, memcpy, was found in use at line 831 in gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Line	887	887
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method static GF_Err BD_DecIndexValueReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
887.                memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Dangerous Functions\Path 42:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=267
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	681	681
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
681.        memcpy(ptr->nameURN, tmpName, i + 1);
```

Dangerous Functions\Path 43:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=268
Status	New

The dangerous function, memcpy, was found in use at line 645 in gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	694	694
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method GF_Err urn_box_read(GF_Box *s, GF_BitStream *bs)

```
....
694.            memcpy(ptr->location, tmpName + i + 1, (to_read - i -
1));
```

Dangerous Functions\Path 44:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=269
Status	New

The dangerous function, memcpy, was found in use at line 3436 in gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	3448	3448
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method GF_Err elng_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3448.                memcpy(str, ptr->extended_language, (u32) ptr-
>size);
```

Dangerous Functions\Path 45:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=270
Status	New

The dangerous function, memcpy, was found in use at line 8091 in gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	8120	8120
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8120.                memcpy(map->uuid, ((GF_UUIDBox *)a)->uuid, 16);
```

Dangerous Functions\Path 46:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=271
Status	New

The dangerous function, memcpy, was found in use at line 9712 in gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	9853	9853
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method static void *sgpd_parse_entry(u32 grouping_type, GF_BitStream *bs, s32 bytes_in_box, u32 entry_size, u32 *total_bytes)

```
....
9853.                   memcpy(ptr->key_info+4, kid, 16);
```

Dangerous Functions\Path 47:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=272
Status	New

The dangerous function, memcpy, was found in use at line 266 in gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c
Line	322	322
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c
Method static void mhas_dmx_check_pid(GF_Filter *filter, GF_MHASDmxCtx *ctx, u32 PL, u32 sample_rate, u32 frame_len, s32 CICPspeakerLayoutIdx, s32 numSpeakers, u8 *dsi, u32 dsi_size)

```
....
322.                memcpy(data+5, dsi, dsi_size);
```

Dangerous Functions\Path 48:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=273
Status	New

The dangerous function, memcpy, was found in use at line 452 in gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c
Line	513	513
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c
Method GF_Err mhas_dmx_process(GF_Filter *filter)

```
....
513.            memcpy(ctx->mhas_buffer + ctx->mhas_buffer_size, data, 
pck_size);
```

Dangerous Functions\Path 49:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=274
Status	New

The dangerous function, memcpy, was found in use at line 452 in gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c
Line	725	725
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0817-TP.c
Method GF_Err mhas_dmx_process(GF_Filter *filter)

```
....
725.                    memcpy(output, start + au_start, au_size);
```

Dangerous Functions\Path 50:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=275
Status	New

The dangerous function, memcpy, was found in use at line 553 in gpac@@gpac-v2.2.0-CVE-2023-0866-TP.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0866-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0866-TP.c
Line	608	608
Object	memcpy	memcpy

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0866-TP.c
Method GF_Err adts_dmx_process(GF_Filter *filter)

```
....
608.                    memcpy(ctx->adts_buffer + ctx->adts_buffer_size, data,
pck_size);
```

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=1000028&projectid=22&pathid=43
Status	New

The size of the buffer used by BD_XReplace in GF_FieldInfo, at line 59 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BD_XReplace passes to GF_FieldInfo, at line 59 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Line	190	190
Object	GF_FieldInfo	GF_FieldInfo

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method static GF_Err BD_XReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
190.                            memcpy(&sffield, &targetField,
sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=44
Status	New

The size of the buffer used by BD_DecMultipleIndexReplace in GF_FieldInfo, at line 295 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BD_DecMultipleIndexReplace passes to GF_FieldInfo, at line 295 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Line	335	335
Object	GF_FieldInfo	GF_FieldInfo

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method	static GF_Err BD_DecMultipleIndexReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
335.        memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=45
Status	New

The size of the buffer used by BD_DecIndexInsert in GF_FieldInfo, at line 591 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BD_DecIndexInsert passes to GF_FieldInfo, at line 591 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Line	630	630
Object	GF_FieldInfo	GF_FieldInfo

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method	static GF_Err BD_DecIndexInsert(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
630.        memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=46
Status	New

The size of the buffer used by BD_DecIndexValueReplace in GF_FieldInfo, at line 831 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BD_DecIndexValueReplace passes to GF_FieldInfo, at line 831 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Line	887	887
Object	GF_FieldInfo	GF_FieldInfo

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method	static GF_Err BD_DecIndexValueReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
887.            memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=47
Status	New

The size of the buffer used by vcrop_process in ->, at line 94 of gpac@@gpac-v2.2.0-CVE-2023-37766-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that vcrop_process passes to ->, at line 94 of gpac@@gpac-v2.2.0-CVE-2023-37766-TP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-37766-TP.c	gpac@@gpac-v2.2.0-CVE-2023-37766-TP.c
Line	189	189
Object	->	->

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-37766-TP.c
Method	static GF_Err vcrop_process(GF_Filter *filter)

```
....
189.            memcpy(vframe->stride, ctx->src_stride, sizeof(vframe-
>stride));
```

Buffer Overflow boundcpy WrongSizeParam\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=48
Status	New

The size of the buffer used by BD_XReplace in GF_FieldInfo, at line 59 of gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BD_XReplace passes to GF_FieldInfo, at line 59 of gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Line	190	190
Object	GF_FieldInfo	GF_FieldInfo

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Method	static GF_Err BD_XReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
190.                    memcpy(&sffield, &targetField,
sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=49
Status	New

The size of the buffer used by BD_DecMultipleIndexReplace in GF_FieldInfo, at line 295 of gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BD_DecMultipleIndexReplace passes to GF_FieldInfo, at line 295 of gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Line	335	335

Object	GF_FieldInfo	GF_FieldInfo

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Method	static GF_Err BD_DecMultipleIndexReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
335.        memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=50
Status	New

The size of the buffer used by BD_DecIndexInsert in GF_FieldInfo, at line 591 of gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BD_DecIndexInsert passes to GF_FieldInfo, at line 591 of gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Line	630	630
Object	GF_FieldInfo	GF_FieldInfo

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Method	static GF_Err BD_DecIndexInsert(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
630.        memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=51
Status	New

The size of the buffer used by BD_DecIndexValueReplace in GF_FieldInfo, at line 831 of gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BD_DecIndexValueReplace passes to GF_FieldInfo, at line 831 of gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-37767-	gpac@@gpac-v2.2.0-CVE-2023-37767-

	TP.c	TP.c
Line	887	887
Object	GF_FieldInfo	GF_FieldInfo

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Method	static GF_Err BD_DecIndexValueReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
887.            memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=52
Status	New

The size of the buffer used by BM_ParseIndexInsert in GF_FieldInfo, at line 452 of gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BM_ParseIndexInsert passes to GF_FieldInfo, at line 452 of gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c
Line	493	493
Object	GF_FieldInfo	GF_FieldInfo

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c
Method	GF_Err BM_ParseIndexInsert(GF_BifsDecoder *codec, GF_BitStream *bs, GF_List *com_list)

```
....
493.        memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=53
Status	New

The size of the buffer used by BM_ParseIndexValueReplace in GF_FieldInfo, at line 740 of gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that BM_ParseIndexValueReplace passes to GF_FieldInfo, at line 740 of gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c
Line	791	791
Object	GF_FieldInfo	GF_FieldInfo

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c
Method	GF_Err BM_ParseIndexValueReplace(GF_BifsDecoder *codec, GF_BitStream *bs, GF_List *com_list)

```
....
791.              memcpy(&sffield, &field, sizeof(GF_FieldInfo));
```

Buffer Overflow boundcpy WrongSizeParam\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=54
Status	New

The size of the buffer used by tfra_box_read in GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that tfra_box_read passes to GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	3298	3298
Object	GF_RandomAccessEntry	GF_RandomAccessEntry

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method	GF_Err tfra_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3298.             memset(p, 0, sizeof(GF_RandomAccessEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=55
Status	New

The size of the buffer used by trun_box_read in GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that trun_box_read passes to GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	7595	7595
Object	GF_TrunEntry	GF_TrunEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err trun_box_read(GF_Box *s, GF_BitStream *bs)

```
....
7595.               memset(ptr->samples, 0, sizeof(GF_TrunEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=56
Status	New

The size of the buffer used by udta_on_child_box in GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that udta_on_child_box passes to GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	8116	8116
Object	GF_UserDataMap	GF_UserDataMap

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8116.               memset(map, 0, sizeof(GF_UserDataMap));
```

Buffer Overflow boundcpy WrongSizeParam\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=57
Status	New

The size of the buffer used by subs_box_read in GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	9489	9489
Object	GF_SubSampleInfoEntry	GF_SubSampleInfoEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9489.              memset(pSamp, 0, sizeof(GF_SubSampleInfoEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=58
Status	New

The size of the buffer used by subs_box_read in GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	9499	9499
Object	GF_SubSampleEntry	GF_SubSampleEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9499.                    memset(pSubSamp, 0, sizeof(GF_SubSampleEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=59

Status	New

The size of the buffer used by *dvcC_box_new in GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvcC_box_new passes to GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	11926	11926
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method	GF_Box *dvcC_box_new()

```
....
11926.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=60
Status	New

The size of the buffer used by *dvvC_box_new in GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvvC_box_new passes to GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	12015	12015
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method	GF_Box *dvvC_box_new()

```
....
12015.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 19:

Severity	Medium
Result State	To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=61
Status	New

The size of the buffer used by dump_mpeg2_ts in GF_M2TS_Dump, at line 4373 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dump_mpeg2_ts passes to GF_M2TS_Dump, at line 4373 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4395	4395
Object	GF_M2TS_Dump	GF_M2TS_Dump

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4395.        memset(&dumper, 0, sizeof(GF_M2TS_Dump));
```

Buffer Overflow boundcpy WrongSizeParam\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=62
Status	New

The size of the buffer used by tfra_box_read in GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that tfra_box_read passes to GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	3298	3298
Object	GF_RandomAccessEntry	GF_RandomAccessEntry

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method	GF_Err tfra_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3298.            memset(p, 0, sizeof(GF_RandomAccessEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 21:

Severity	Medium

Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=63
Status	New

The size of the buffer used by trun_box_read in GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that trun_box_read passes to GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	7595	7595
Object	GF_TrunEntry	GF_TrunEntry

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method	GF_Err trun_box_read(GF_Box *s, GF_BitStream *bs)

```
....
7595.           memset(ptr->samples, 0, sizeof(GF_TrunEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=64
Status	New

The size of the buffer used by udta_on_child_box in GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that udta_on_child_box passes to GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	8116	8116
Object	GF_UserDataMap	GF_UserDataMap

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method	GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8116.           memset(map, 0, sizeof(GF_UserDataMap));
```

Buffer Overflow boundcpy WrongSizeParam\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=65
Status	New

The size of the buffer used by subs_box_read in GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	9489	9489
Object	GF_SubSampleInfoEntry	GF_SubSampleInfoEntry

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method	GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9489.            memset(pSamp, 0, sizeof(GF_SubSampleInfoEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=66
Status	New

The size of the buffer used by subs_box_read in GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	9499	9499
Object	GF_SubSampleEntry	GF_SubSampleEntry

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method	GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9499.                memset(pSubSamp, 0, sizeof(GF_SubSampleEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=67
Status	New

The size of the buffer used by *dvcC_box_new in GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvcC_box_new passes to GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	11926	11926
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Box *dvcC_box_new()

```
....
11926.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=68
Status	New

The size of the buffer used by *dvvC_box_new in GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvvC_box_new passes to GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	12015	12015
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Box *dvvC_box_new()

```
....
12015.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=69
Status	New

The size of the buffer used by tfra_box_read in GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that tfra_box_read passes to GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	3298	3298
Object	GF_RandomAccessEntry	GF_RandomAccessEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method GF_Err tfra_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3298.           memset(p, 0, sizeof(GF_RandomAccessEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 28:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=70
Status	New

The size of the buffer used by trun_box_read in GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that trun_box_read passes to GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	7595	7595
Object	GF_TrunEntry	GF_TrunEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c

Method	GF_Err trun_box_read(GF_Box *s, GF_BitStream *bs)

```
....
7595.           memset(ptr->samples, 0, sizeof(GF_TrunEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 29:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=71
Status	New

The size of the buffer used by udta_on_child_box in GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that udta_on_child_box passes to GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	8116	8116
Object	GF_UserDataMap	GF_UserDataMap

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8116.           memset(map, 0, sizeof(GF_UserDataMap));
```

Buffer Overflow boundcpy WrongSizeParam\Path 30:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=72
Status	New

The size of the buffer used by subs_box_read in GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	9489	9489
Object	GF_SubSampleInfoEntry	GF_SubSampleInfoEntry

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9489.              memset(pSamp, 0, sizeof(GF_SubSampleInfoEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 31:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=73
Status	New

The size of the buffer used by subs_box_read in GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	9499	9499
Object	GF_SubSampleEntry	GF_SubSampleEntry

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9499.                    memset(pSubSamp, 0, sizeof(GF_SubSampleEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 32:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=74
Status	New

The size of the buffer used by *dvcC_box_new in GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvcC_box_new passes to GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	11926	11926
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Box *dvcC_box_new()

```
....
11926.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=75
Status	New

The size of the buffer used by *dvvC_box_new in GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvvC_box_new passes to GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	12015	12015
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Box *dvvC_box_new()

```
....
12015.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 34:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=76
Status	New

The size of the buffer used by dump_mpeg2_ts in GF_M2TS_Dump, at line 4373 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dump_mpeg2_ts passes to GF_M2TS_Dump, at line 4373 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c

Line	4395	4395
Object	GF_M2TS_Dump	GF_M2TS_Dump

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4395.        memset(&dumper, 0, sizeof(GF_M2TS_Dump));
```

Buffer Overflow boundcpy WrongSizeParam\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=77
Status	New

The size of the buffer used by tfra_box_read in GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that tfra_box_read passes to GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	3298	3298
Object	GF_RandomAccessEntry	GF_RandomAccessEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method GF_Err tfra_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3298.              memset(p, 0, sizeof(GF_RandomAccessEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=78
Status	New

The size of the buffer used by trun_box_read in GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that trun_box_read passes to GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-	gpac@@gpac-v2.2.0-CVE-2021-32268-

	FP.c	FP.c
Line	7595	7595
Object	GF_TrunEntry	GF_TrunEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method GF_Err trun_box_read(GF_Box *s, GF_BitStream *bs)

```
....
7595.             memset(ptr->samples, 0, sizeof(GF_TrunEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=79
Status	New

The size of the buffer used by udta_on_child_box in GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that udta_on_child_box passes to GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	8116	8116
Object	GF_UserDataMap	GF_UserDataMap

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8116.             memset(map, 0, sizeof(GF_UserDataMap));
```

Buffer Overflow boundcpy WrongSizeParam\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=80
Status	New

The size of the buffer used by subs_box_read in GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, to overwrite the target buffer.

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	9489	9489
Object	GF_SubSampleInfoEntry	GF_SubSampleInfoEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9489.                memset(pSamp, 0, sizeof(GF_SubSampleInfoEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=81
Status	New

The size of the buffer used by subs_box_read in GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	9499	9499
Object	GF_SubSampleEntry	GF_SubSampleEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9499.                      memset(pSubSamp, 0, sizeof(GF_SubSampleEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=82
Status	New

The size of the buffer used by *dvcC_box_new in GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvcC_box_new passes to

GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	11926	11926
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method GF_Box *dvcC_box_new()

```
....
11926.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=83
Status	New

The size of the buffer used by *dvvC_box_new in GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvvC_box_new passes to GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	12015	12015
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method GF_Box *dvvC_box_new()

```
....
12015.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 42:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=84
Status	New

The size of the buffer used by tfra_box_read in GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that tfra_box_read passes to GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	3298	3298
Object	GF_RandomAccessEntry	GF_RandomAccessEntry

Code Snippet
File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	GF_Err tfra_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3298.           memset(p, 0, sizeof(GF_RandomAccessEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 43:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=85
Status	New

The size of the buffer used by trun_box_read in GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that trun_box_read passes to GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	7595	7595
Object	GF_TrunEntry	GF_TrunEntry

Code Snippet
File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	GF_Err trun_box_read(GF_Box *s, GF_BitStream *bs)

```
....
7595.           memset(ptr->samples, 0, sizeof(GF_TrunEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 44:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=86
Status	New

The size of the buffer used by udta_on_child_box in GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that udta_on_child_box passes to GF_UserDataMap, at line 8091 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	8116	8116
Object	GF_UserDataMap	GF_UserDataMap

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method GF_Err udta_on_child_box(GF_Box *s, GF_Box *a, Bool is_rem)

```
....
8116.           memset(map, 0, sizeof(GF_UserDataMap));
```

Buffer Overflow boundcpy WrongSizeParam\Path 45:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=87
Status	New

The size of the buffer used by subs_box_read in GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleInfoEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	9489	9489
Object	GF_SubSampleInfoEntry	GF_SubSampleInfoEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9489.           memset(pSamp, 0, sizeof(GF_SubSampleInfoEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 46:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=88

Status	New

The size of the buffer used by subs_box_read in GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that subs_box_read passes to GF_SubSampleEntry, at line 9475 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	9499	9499
Object	GF_SubSampleEntry	GF_SubSampleEntry

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method GF_Err subs_box_read(GF_Box *s, GF_BitStream *bs)

```
....
9499.                memset(pSubSamp, 0, sizeof(GF_SubSampleEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 47:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=89
Status	New

The size of the buffer used by *dvcC_box_new in GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvcC_box_new passes to GF_DOVIConfigurationBox, at line 11922 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	11926	11926
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method GF_Box *dvcC_box_new()

```
....
11926.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 48:

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

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=90
Status	New

The size of the buffer used by *dvvC_box_new in GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dvvC_box_new passes to GF_DOVIConfigurationBox, at line 12011 of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	12015	12015
Object	GF_DOVIConfigurationBox	GF_DOVIConfigurationBox

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	GF_Box *dvvC_box_new()

```
....
12015.      memset(tmp, 0, sizeof(GF_DOVIConfigurationBox));
```

Buffer Overflow boundcpy WrongSizeParam\Path 49:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=91
Status	New

The size of the buffer used by tfra_box_read in GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that tfra_box_read passes to GF_RandomAccessEntry, at line 3256 of gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	3298	3298
Object	GF_RandomAccessEntry	GF_RandomAccessEntry

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method	GF_Err tfra_box_read(GF_Box *s, GF_BitStream *bs)

```
....
3298.           memset(p, 0, sizeof(GF_RandomAccessEntry));
```

Buffer Overflow boundcpy WrongSizeParam\Path 50:

Severity	Medium

Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=92
Status	New

The size of the buffer used by trun_box_read in GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that trun_box_read passes to GF_TrunEntry, at line 7562 of gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	7595	7595
Object	GF_TrunEntry	GF_TrunEntry

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method	GF_Err trun_box_read(GF_Box *s, GF_BitStream *bs)

```
....
7595.             memset(ptr->samples, 0, sizeof(GF_TrunEntry));
```

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=1000028&projectid=22&pathid=1034
Status	New

The variable declared in a at gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c in line 104 is not initialized when it is used by a at gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c in line 104.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c	gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c
Line	108	128
Object	a	a

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c

Method GF_Err ilst_item_box_read(GF_Box *s,GF_BitStream *bs)

```
....
108.        GF_Box *a = NULL;
....
128.                ISOM_DECREASE_SIZE(ptr, a->size);
```

Use of Zero Initialized Pointer\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1035
Status	New

The variable declared in key_info at gpac@@gpac-v2.2.0-CVE-2021-31254-FP.c in line 1284 is not initialized when it is used by civ at gpac@@gpac-v2.2.0-CVE-2021-31254-FP.c in line 1245.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-31254-FP.c	gpac@@gpac-v2.2.0-CVE-2021-31254-FP.c
Line	1347	1264
Object	key_info	civ

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2021-31254-FP.c

Method GF_Err senc_Parse(GF_BitStream *bs, GF_TrackBox *trak, GF_TrackFragmentBox *traf, GF_SampleEncryptionBox *senc)

```
....
1347.           const u8 *key_info=NULL;
```

File Name gpac@@gpac-v2.2.0-CVE-2021-31254-FP.c

Method u8 key_info_get_iv_size(const u8 *key_info, u32 key_info_size, u32 idx, u8 *const_iv_size, const u8 **const_iv)

```
....
1264.                   civ = key_info + kpos + 1;
```

Use of Zero Initialized Pointer\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1036
Status	New

The variable declared in sub_samples at gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c in line 1539 is not initialized when it is used by sub_samples at gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c in line 1539.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c	gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c
Line	1551	1556
Object	sub_samples	sub_samples

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c
Method u32 gf_isom_sample_get_subsample_entry(GF_ISOFile *movie, u32 track, u32 sampleNumber, u32 flags, GF_SubSampleInfoEntry **sub_sample)

```
....
1551.              sub_samples = NULL;
....
1556.        count = gf_list_count(sub_samples->Samples);
```

Use of Zero Initialized Pointer\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1037
Status	New

The variable declared in sub_samples at gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c in line 1539 is not initialized when it is used by sub_samples at gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c in line 1539.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c	gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c
Line	1542	1556
Object	sub_samples	sub_samples

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c
Method u32 gf_isom_sample_get_subsample_entry(GF_ISOFile *movie, u32 track, u32 sampleNumber, u32 flags, GF_SubSampleInfoEntry **sub_sample)

```
....
1542.        GF_SubSampleInformationBox *sub_samples=NULL;
....
1556.        count = gf_list_count(sub_samples->Samples);
```

Use of Zero Initialized Pointer\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1038
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	920
Object	elt	elt

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
920.                          SVG_handlerElement *handler = 
gf_dom_listener_build((GF_Node *) elt, evtType, 0);
```

Use of Zero Initialized Pointer\Path 6:

Severity Medium
Result State To Verify
Online Results http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1039
Status New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	822
Object	elt	elt

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
822.                      gf_svg_parse_style((GF_Node *)elt, att->value);
```

Use of Zero Initialized Pointer\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1040
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by command at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 590.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	610
Object	elt	command

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c

Method static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.          SVG_Element *elt = NULL;
```

File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c

Method static void svg_init_root_element(GF_SVG_Parser *parser, SVG_Element *root_svg)

```
....
610.                parser->command->node = (GF_Node *)root_svg;
```

Use of Zero Initialized Pointer\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1041
Status	New

The variable declared in par at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by command at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 590.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	1055	610

Object	par	command

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
1055.               SVG_Element *par = NULL;
```

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static void svg_init_root_element(GF_SVG_Parser *parser, SVG_Element *root_svg)

```
....
610.                parser->command->node = (GF_Node *)root_svg;
```

Use of Zero Initialized Pointer\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1042
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	1039
Object	elt	elt

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.          SVG_Element *elt = NULL;
....
1039.               gf_node_init((GF_Node *)elt);
```

Use of Zero Initialized Pointer\Path 10:

Severity	Medium
Result State	To Verify

Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1043
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	1015
Object	elt	elt

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
1015.                       gf_svg_parse_element_id((GF_Node *)elt,
node_name, parser->command_depth ? GF_TRUE : GF_FALSE);
```

Use of Zero Initialized Pointer\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1044
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	994
Object	elt	elt

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
994.                    gf_svg_parse_attribute((GF_Node *)elt, &info,
(char*)ev_observer, 0);
```

Use of Zero Initialized Pointer\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1045
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by far_ptr at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	1082
Object	elt	far_ptr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
1082.                   XMLEV_Event *ev = (XMLEV_Event *)info.far_ptr;
```

Use of Zero Initialized Pointer\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1046
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by far_ptr at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	1075

Object	elt	far_ptr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
1075.                   XMLRI *handler = (XMLRI *)info.far_ptr;
```

Use of Zero Initialized Pointer\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1047
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by far_ptr at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	1067
Object	elt	far_ptr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
1067.                   XMLRI *target = (XMLRI *)info.far_ptr;
```

Use of Zero Initialized Pointer\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1048
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by far_ptr at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	1059
Object	elt	far_ptr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.          SVG_Element *elt = NULL;
....
1059.                        XMLRI *observer = (XMLRI *)info.far_ptr;
```

Use of Zero Initialized Pointer\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1049
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by far_ptr at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	1003
Object	elt	far_ptr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.          SVG_Element *elt = NULL;
....
1003.                        gf_node_dom_listener_add(((XMLRI
*)info.far_ptr)->target, (GF_Node *) listener);
```

Use of Zero Initialized Pointer\Path 17:

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

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1050
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by far_ptr at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	989
Object	elt	far_ptr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
989.                ((XMLRI *)info.far_ptr)->target = node;
```

Use of Zero Initialized Pointer\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1051
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	973
Object	elt	elt

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
973.              GF_Node *node = (GF_Node *)elt;
```

Use of Zero Initialized Pointer\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1052
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	751
Object	elt	elt

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
751.              gf_node_register((GF_Node*)elt, NULL);
```

Use of Zero Initialized Pointer\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1053
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by anim at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	750
Object	elt	anim

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
750.                anim->animation_elt = elt;
```

Use of Zero Initialized Pointer\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1054
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	769
Object	elt	elt

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
....
769.                gf_node_register((GF_Node*)elt, NULL);
```

Use of Zero Initialized Pointer\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1055
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by anim at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	768
Object	elt	anim

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.         SVG_Element *elt = NULL;
....
768.               anim->animation_elt = elt;
```

Use of Zero Initialized Pointer\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1056
Status	New

The variable declared in elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by elt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	736
Object	elt	elt

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.         SVG_Element *elt = NULL;
....
736.         gf_node_register((GF_Node *)elt, (parent ? (GF_Node
*)parent->node : NULL));
```

Use of Zero Initialized Pointer\Path 24:

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

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1057
Status	New

The variable declared in par at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by par at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	1055	1090
Object	par	par

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c

Method static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
1055.                SVG_Element *par = NULL;
....
1090.                      gf_node_dom_listener_add((GF_Node *)par,
(GF_Node *) listener);
```

Use of Zero Initialized Pointer\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1058
Status	New

The variable declared in atNode at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097 is not initialized when it is used by command at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	1102	1128
Object	atNode	command

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c

Method static GF_Err lsr_parse_command(GF_SVG_Parser *parser, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
1102.       char *atNode = NULL;
....
1128.               parser->command->node = svg_find_node(parser, atNode);
```

Use of Zero Initialized Pointer\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1059
Status	New

The variable declared in atNode at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097 is not initialized when it is used by command at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	1102	1165
Object	atNode	command

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static GF_Err lsr_parse_command(GF_SVG_Parser *parser, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
1102.       char *atNode = NULL;
....
1165.               parser->command->node = svg_find_node(parser, atNode);
```

Use of Zero Initialized Pointer\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1060
Status	New

The variable declared in atNode at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097 is not initialized when it is used by command at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	1102	1250
Object	atNode	command

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static GF_Err lsr_parse_command(GF_SVG_Parser *parser, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
1102.        char *atNode = NULL;
....
1250.              parser->command->node = svg_find_node(parser, atNode);
```

Use of Zero Initialized Pointer\Path 28:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1061
Status	New

The variable declared in atNode at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097 is not initialized when it is used by command at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	1102	1272
Object	atNode	command

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static GF_Err lsr_parse_command(GF_SVG_Parser *parser, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
1102.        char *atNode = NULL;
....
1272.              parser->command->node = svg_find_node(parser, atNode);
```

Use of Zero Initialized Pointer\Path 29:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1062
Status	New

The variable declared in atOperandAtt at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097 is not initialized when it is used by command at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c

Line	1105	1237
Object	atOperandAtt	command

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static GF_Err lsr_parse_command(GF_SVG_Parser *parser, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
1105.       char *atOperandAtt = NULL;
....
1237.                   parser->command->fromFieldIndex =
gf_xml_get_attribute_tag(opNode, atOperandAtt, parser->current_ns);
```

Use of Zero Initialized Pointer\Path 30:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1063
Status	New

The variable declared in atEvent at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097 is not initialized when it is used by command at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1097.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	1109	1276
Object	atEvent	command

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static GF_Err lsr_parse_command(GF_SVG_Parser *parser, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
1109.       char *atEvent = NULL;
....
1276.               parser->command->send_event_name =
gf_dom_event_type_by_name(atEvent);
```

Use of Zero Initialized Pointer\Path 31:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1064
Status	New

The variable declared in sub_samples at gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c in line 1539 is not initialized when it is used by sub_samples at gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c in line 1539.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c
Line	1551	1556
Object	sub_samples	sub_samples

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c
Method	u32 gf_isom_sample_get_subsample_entry(GF_ISOFile *movie, u32 track, u32 sampleNumber, u32 flags, GF_SubSampleInfoEntry **sub_sample)

```
....
1551.                 sub_samples = NULL;
....
1556.         count = gf_list_count(sub_samples->Samples);
```

Use of Zero Initialized Pointer\Path 32:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1065
Status	New

The variable declared in sub_samples at gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c in line 1539 is not initialized when it is used by sub_samples at gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c in line 1539.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c
Line	1542	1556
Object	sub_samples	sub_samples

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c
Method	u32 gf_isom_sample_get_subsample_entry(GF_ISOFile *movie, u32 track, u32 sampleNumber, u32 flags, GF_SubSampleInfoEntry **sub_sample)

```
....
1542.         GF_SubSampleInformationBox *sub_samples=NULL;
....
1556.         count = gf_list_count(sub_samples->Samples);
```

Use of Zero Initialized Pointer\Path 33:

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

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1066
Status	New

The variable declared in node at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 1437 is not initialized when it is used by far_ptr at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 1437.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	1659	1868
Object	node	far_ptr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static GF_Node *xmt_parse_element(GF_XMTParser *parser, char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, XMTNodeStack *parent)

```
....
1659.                node = NULL;
....
1868.                      * ((GF_Node **)container.far_ptr) = node;
```

Use of Zero Initialized Pointer\Path 34:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1067
Status	New

The variable declared in proto at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 1437 is not initialized when it is used by far_ptr at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 1437.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	1447	1868
Object	proto	far_ptr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static GF_Node *xmt_parse_element(GF_XMTParser *parser, char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, XMTNodeStack *parent)

```
....
1447.       GF_Proto *proto = NULL;
....
1868.                   * ((GF_Node **)container.far_ptr) = node;
```

Use of Zero Initialized Pointer\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1068
Status	New

The variable declared in fieldName at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 1437 is not initialized when it is used by proto_field at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 1437.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	1487	1501
Object	fieldName	proto_field

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static GF_Node *xmt_parse_element(GF_XMTParser *parser, char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, XMTNodeStack *parent)

```
....
1487.                   char *fieldName = NULL;
....
1501.                   parser->proto_field =
gf_sg_proto_field_new(parser->parsing_proto, fType, eType, fieldName);
```

Use of Zero Initialized Pointer\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1069
Status	New

The variable declared in fieldValue at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 2024 is not initialized when it is used by buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 757.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	2154	772

Object	fieldValue	buffer

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static void xmt_parse_command(GF_XMTParser *parser, const char *name, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
2154.               char *fieldValue = NULL;
```

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
772.                if (len) val->buffer = gf_strdup(str);
```

Use of Zero Initialized Pointer\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1070
Status	New

The variable declared in fieldValue at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 2024 is not initialized when it is used by buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 757.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	2073	772
Object	fieldValue	buffer

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static void xmt_parse_command(GF_XMTParser *parser, const char *name, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
2073.               char *fieldValue = NULL;
```

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
772.                if (len) val->buffer = gf_strdup(str);
```

Use of Zero Initialized Pointer\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1071
Status	New

The variable declared in fieldValue at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 2024 is not initialized when it is used by buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 757.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	2073	793
Object	fieldValue	buffer

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static void xmt_parse_command(GF_XMTParser *parser, const char *name, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
2073.               char *fieldValue = NULL;
```

▼

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
793.                if (len) val->buffer = gf_strdup(str);
```

Use of Zero Initialized Pointer\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1072
Status	New

The variable declared in fieldValue at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 2024 is not initialized when it is used by buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 757.

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	2154	793
Object	fieldValue	buffer

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method static void xmt_parse_command(GF_XMTParser *parser, const char *name, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
2154.           char *fieldValue = NULL;
```

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
793.            if (len) val->buffer = gf_strdup(str);
```

Use of Zero Initialized Pointer\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1073
Status	New

The variable declared in buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 859 is not initialized when it is used by buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 859.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	865	870
Object	buffer	buffer

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method static u32 xmt_parse_script(GF_XMTParser *parser, const char *name, SFScript *val, Bool is_mf, char *a_value)

```
....
865.        sfstr.buffer = NULL;
....
870.        val->script_text = (char*)sfstr.buffer;
```

Use of Zero Initialized Pointer\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1074
Status	New

The variable declared in buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 757 is not initialized when it is used by buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 859.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	818	870
Object	buffer	buffer

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
818.        val->buffer = NULL;
```

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static u32 xmt_parse_script(GF_XMTParser *parser, const char *name, SFScript *val, Bool is_mf, char *a_value)

```
....
870.        val->script_text = (char*)sfstr.buffer;
```

Use of Zero Initialized Pointer\Path 42:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1075
Status	New

The variable declared in buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 757 is not initialized when it is used by buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 859.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	792	870
Object	buffer	buffer

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
792.                val->buffer = NULL;
```

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static u32 xmt_parse_script(GF_XMTParser *parser, const char *name, SFScript *val, Bool is_mf, char *a_value)

```
....
870.        val->script_text = (char*)sfstr.buffer;
```

Use of Zero Initialized Pointer\Path 43:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1076
Status	New

The variable declared in buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 757 is not initialized when it is used by buffer at gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c in line 859.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	771	870
Object	buffer	buffer

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
771.                val->buffer = NULL;
```

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static u32 xmt_parse_script(GF_XMTParser *parser, const char *name, SFScript *val, Bool is_mf, char *a_value)

```
....
870.        val->script_text = (char*)sfstr.buffer;
```

Use of Zero Initialized Pointer\Path 44:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1077
Status	New

The variable declared in output at gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c in line 928 is not initialized when it is used by pck at gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c in line 928.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c	gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c
Line	932	944
Object	output	pck

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c
Method	static GF_Err av1dmx_parse_flush_sample(GF_Filter *filter, GF_AV1DmxCtx *ctx)

```
....
932.         u8 *output = NULL;
....
944.         pck = gf_filter_pck_new_alloc(ctx->opid, pck_size, &output);
```

Use of Zero Initialized Pointer\Path 45:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1078
Status	New

The variable declared in vp_cfg at gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c in line 153 is not initialized when it is used by pck at gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c in line 928.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c	gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c
Line	168	944
Object	vp_cfg	pck

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c
Method	GF_Err av1dmx_check_format(GF_Filter *filter, GF_AV1DmxCtx *ctx, GF_BitStream *bs, u32 *last_obu_end)

```
....
168.        ctx->vp_cfg = NULL;
```

File Name gpac@@gpac-v2.2.0-CVE-2023-1449-TP.c

Method static GF_Err av1dmx_parse_flush_sample(GF_Filter *filter, GF_AV1DmxCtx *ctx)

```
....
944.        pck = gf_filter_pck_new_alloc(ctx->opid, pck_size, &output);
```

Use of Zero Initialized Pointer\Path 46:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1079
Status	New

The variable declared in avc_state at gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c in line 477 is not initialized when it is used by avc_state at gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c in line 477.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Line	483	632
Object	avc_state	avc_state

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c

Method static void naludmx_check_dur(GF_Filter *filter, GF_NALUDmxCtx *ctx)

```
....
483.        AVCState *avc_state = NULL;
....
632.                nal_type = avc_state->last_nal_type_parsed;
```

Use of Zero Initialized Pointer\Path 47:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1080
Status	New

The variable declared in pa at gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c in line 833 is not initialized when it is used by pa at gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c in line 833.

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Line	841	852
Object	pa	pa

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Method static void naludmx_add_param_nalu(GF_List *param_list, GF_NALUFFParam *sl, u8 nal_type)

```
....
841.                pa = NULL;
....
852.          gf_list_add(pa->nalus, sl);
```

Use of Zero Initialized Pointer\Path 48:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1081
Status	New

The variable declared in pa at gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c in line 833 is not initialized when it is used by pa at gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c in line 833.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Line	835	852
Object	pa	pa

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Method static void naludmx_add_param_nalu(GF_List *param_list, GF_NALUFFParam *sl, u8 nal_type)

```
....
835.          GF_NALUFFParamArray *pa = NULL;
....
852.          gf_list_add(pa->nalus, sl);
```

Use of Zero Initialized Pointer\Path 49:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1082
Status	New

The variable declared in _buf at gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c in line 225 is not initialized when it is used by _buf at gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c in line 225.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c
Line	229	265
Object	_buf	_buf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c
Method void id3dmx_flush(GF_Filter *filter, u8 *id3_buf, u32 id3_buf_size, GF_FilterPid *audio_pid, GF_FilterPid **video_pid_p)

```
....
229.         char *_buf=NULL;
....
265.                     _buf = gf_realloc(_buf, fsize+3);
```

Use of Zero Initialized Pointer\Path 50:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1083
Status	New

The variable declared in entries at gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c in line 5370 is not initialized when it is used by entries at gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c in line 5370.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	5384	5402
Object	entries	entries

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err stsc_box_read(GF_Box *s, GF_BitStream *bs)

```
....
5384.        ptr->entries = NULL;
....
5402.             if (i) ptr->entries[i-1].nextChunk = ptr-
>entries[i].firstChunk;
```

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=1000028&projectid=22&pathid=25
Status	New

The application performs an illegal operation in mp3_dmx_check_dur, in gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c. In line 118, the program attempts to divide by prev_sr, 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 prev_sr in mp3_dmx_check_dur of gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c, at line 118.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c
Line	159	159
Object	prev_sr	prev_sr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c
Method	static void mp3_dmx_check_dur(GF_Filter *filter, GF_MP3DmxCtx *ctx)

```
....
159.                    duration /= prev_sr;
```

Divide By Zero\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=26
Status	New

The application performs an illegal operation in mp3_dmx_check_dur, in gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c. In line 118, the program attempts to divide by prev_sr, 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 prev_sr in mp3_dmx_check_dur of gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c, at line 118.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c
Line	162	162
Object	prev_sr	prev_sr

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c
Method	static void mp3_dmx_check_dur(GF_Filter *filter, GF_MP3DmxCtx *ctx)

```
....
162.                    cur_dur /= prev_sr;
```

Divide By Zero\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=27
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	7843	7843
Object	ctso_multiplier	ctso_multiplier

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c

Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7843.           if (ctrn->ctso_multiplier) return
ctrn_s32_to_index(ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=28
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	7847	7847
Object	ctso_multiplier	ctso_multiplier

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7847.        if (ctrn->ctso_multiplier) return
ctrn_u32_to_index((u32)ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=29
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	7843	7843
Object	ctso_multiplier	ctso_multiplier

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7843.            if (ctrn->ctso_multiplier) return
ctrn_s32_to_index(ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=30
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c, at line 7835.

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	7847	7847
Object	ctso_multiplier	ctso_multiplier

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method	static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7847.         if (ctrn->ctso_multiplier) return
ctrn_u32_to_index((u32)ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=31
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	7843	7843
Object	ctso_multiplier	ctso_multiplier

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7843.               if (ctrn->ctso_multiplier) return
ctrn_s32_to_index(ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=32
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	7847	7847
Object	ctso_multiplier	ctso_multiplier

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7847.        if (ctrn->ctso_multiplier) return
ctrn_u32_to_index((u32)ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=33
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	7843	7843
Object	ctso_multiplier	ctso_multiplier

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7843.            if (ctrn->ctso_multiplier) return
ctrn_s32_to_index(ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22

	&pathid=34
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	7847	7847
Object	ctso_multiplier	ctso_multiplier

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7847.       if (ctrn->ctso_multiplier) return
ctrn_u32_to_index((u32)ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=35
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	7843	7843
Object	ctso_multiplier	ctso_multiplier

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7843.           if (ctrn->ctso_multiplier) return
ctrn_s32_to_index(ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=36
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	7847	7847
Object	ctso_multiplier	ctso_multiplier

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7847.        if (ctrn->ctso_multiplier) return
ctrn_u32_to_index((u32)ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=37
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	7843	7843
Object	ctso_multiplier	ctso_multiplier

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method	static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7843.                   if (ctrn->ctso_multiplier) return
ctrn_s32_to_index(ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=38
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	7847	7847
Object	ctso_multiplier	ctso_multiplier

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method	static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7847.         if (ctrn->ctso_multiplier) return
ctrn_u32_to_index((u32)ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=39
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Line	7843	7843

Object	ctso_multiplier	ctso_multiplier

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c

Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7843.             if (ctrn->ctso_multiplier) return
ctrn_s32_to_index(ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=40
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Line	7847	7847
Object	ctso_multiplier	ctso_multiplier

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c

Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7847.       if (ctrn->ctso_multiplier) return
ctrn_u32_to_index((u32)ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=41
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	7843	7843
Object	ctso_multiplier	ctso_multiplier

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7843.               if (ctrn->ctso_multiplier) return
ctrn_s32_to_index(ctts / ctrn->ctso_multiplier);
```

Divide By Zero\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=42
Status	New

The application performs an illegal operation in ctrn_ctts_to_index, in gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c. In line 7835, the program attempts to divide by ctso_multiplier, 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 ctso_multiplier in ctrn_ctts_to_index of gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c, at line 7835.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	7847	7847
Object	ctso_multiplier	ctso_multiplier

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method static u32 ctrn_ctts_to_index(GF_TrackFragmentRunBox *ctrn, s32 ctts)

```
....
7847.        if (ctrn->ctso_multiplier) return
ctrn_u32_to_index((u32)ctts / ctrn->ctso_multiplier);
```

Buffer Overflow Loops

Query Path:
CPP\Cx\CPP Buffer Overflow\Buffer Overflow Loops Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows
NIST SP 800-53: SI-16 Memory Protection (P1)
OWASP Top 10 2017: A1-Injection

[Description](#)

Buffer Overflow Loops\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=223
Status	New

The buffer allocated by c in gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c at line 254 does not correctly account for the actual size of the value, resulting in an incorrect allocation that is off by one.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c	gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c
Line	313	330
Object	16	c

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c
Method	GF_Err vobsub_read_idx(FILE *file, vobsub_file *vobsub, s32 *version)

```
....
313.                    u8  palette[16][4];
....
330.                         g = palette[c][1];
```

Buffer Overflow Loops\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=224
Status	New

The buffer allocated by c in gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c at line 254 does not correctly account for the actual size of the value, resulting in an incorrect allocation that is off by one.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c	gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c
Line	313	329
Object	16	c

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c
Method	GF_Err vobsub_read_idx(FILE *file, vobsub_file *vobsub, s32 *version)

```
....
313.                         u8  palette[16][4];
....
329.                                 r = palette[c][2];
```

Buffer Overflow Loops\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=225
Status	New

The buffer allocated by c in gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c at line 254 does not correctly account for the actual size of the value, resulting in an incorrect allocation that is off by one.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c	gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c
Line	313	331
Object	16	c

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-3523-TP.c
Method	GF_Err vobsub_read_idx(FILE *file, vobsub_file *vobsub, s32 *version)

```
....
313.                         u8  palette[16][4];
....
331.                                 b = palette[c][0];
```

Improper Resource Access Authorization

Query Path:
CPP\Cx\CPP Low Visibility\Improper Resource Access Authorization Version:1

Categories

FISMA 2014: Identification And Authentication
NIST SP 800-53: AC-3 Access Enforcement (P1)
OWASP Top 10 2017: A2-Broken Authentication

Description

Improper Resource Access Authorization\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1175
Status	New

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4600	4600
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4600.       fprintf(stderr, "Downloading %s\n", mpd_src);
```

Improper Resource Access Authorization\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1176
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4693	4693
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4693.                   fprintf(stderr, "Downloading %s\n",
seg_url);
```

Improper Resource Access Authorization\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1177
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4721	4721
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4721.                         fprintf(stderr, "Downloading %s\n",
seg_url);
```

Improper Resource Access Authorization\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1178
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4186	4186
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4186.                 fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1179
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4191	4191
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c

Method static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4191.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1180
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4199	4199
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4199.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1181
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4205	4205
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4205.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1182
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4210	4210
Object	fprintf	fprintf

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c

Method static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4210.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1183
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4215	4215
Object	fprintf	fprintf

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c

Method static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4215.                   fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1184
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4239	4239
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4239.                   fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, prog->pmt_pid);
```

Improper Resource Access Authorization\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1185
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4247	4247
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4247.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, prog->pmt_pid);
```

Improper Resource Access Authorization\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1186
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4255	4255
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4255.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, prog->pmt_pid);
```

Improper Resource Access Authorization\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1187
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4312	4312
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4312.                           fprintf(dumper->timestamps_info_file,
"%u\t%d\t", pck->stream->pes_start_packet_number, pck->stream->pid);
```

Improper Resource Access Authorization\Path 14:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1188
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4313	4313
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4313.                           if (interpolated_pcr_value)
fprintf(dumper->timestamps_info_file, "%f",
interpolated_pcr_value/(300.0 * 90000));
```

Improper Resource Access Authorization\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1189
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4314	4314
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4314.                              fprintf(dumper->timestamps_info_file,
"\t");
```

Improper Resource Access Authorization\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1190
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4315	4315
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4315.                              if (pck->DTS) fprintf(dumper-
>timestamps_info_file, "%f", (pck->DTS / 90000.0));
```

Improper Resource Access Authorization\Path 17:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1191
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4316	4316
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4316.                          fprintf(dumper->timestamps_info_file,
"\t%f\t%d\t%d", pck->PTS / 90000.0, (pck->flags & GF_M2TS_PES_PCK_RAP) ?
1 : 0, (pck->flags & GF_M2TS_PES_PCK_DISCONTINUITY) ? 1 : 0);
```

Improper Resource Access Authorization\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1192
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4320	4320
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4320.                                fprintf(dumper-
>timestamps_info_file, "\t%f\n", diff);
```

Improper Resource Access Authorization\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1193
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4325	4325
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4325.                                   fprintf(dumper-
>timestamps_info_file, "\t\n");
```

Improper Resource Access Authorization\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1194
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4339	4339
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4339.                       fprintf(dumper->timestamps_info_file,
"%u\t%d\t%f\t\t\t\t%d\n", pck->stream->program-
>last_pcr_value_pck_number, pck->stream->pid, pck->PTS / (300*90000.0),
(pck->flags & GF_M2TS_PES_PCK_DISCONTINUITY) ? 1 : 0);
```

Improper Resource Access Authorization\Path 21:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1195
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4384	4384
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4384.               fprintf(stderr, "No program number nor output filename
specified. No timestamp file will be generated.");
```

Improper Resource Access Authorization\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1196
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4434	4434
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4434.               fprintf(stderr, "No program number specified,
defaulting to first program\n");
```

Improper Resource Access Authorization\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1197
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4438	4438
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4438.               fprintf(stderr, "No program number nor output filename
specified. No timestamp file will be generated\n");
```

Improper Resource Access Authorization\Path 24:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1198
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4448	4448
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4448.              fprintf(dumper.timestamps_info_file, 
"PCK#\tPID\tPCR\tDTS\tPTS\tRAP\tDiscontinuity\tDTS-PCR Diff\n");
```

Improper Resource Access Authorization\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1199
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4491	4491
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method void get_file_callback(void *usr_cbk, GF_NETIO_Parameter *parameter)

```
....
4491.                     fprintf(stderr, "download %02d %% at %05d 
kpbs\r", (u32) max, bps*8/1000);
```

Improper Resource Access Authorization\Path 26:

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

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1200
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4516	4516
Object	fprintf	fprintf

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c

Method static void revert_cache_file(char *item_path)

```
....
4516.            fprintf(stderr, "%s is not a gpac cache file\n",
item_path);
```

Improper Resource Access Authorization\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1201
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4600	4600
Object	fprintf	fprintf

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c

Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4600.        fprintf(stderr, "Downloading %s\n", mpd_src);
```

Improper Resource Access Authorization\Path 28:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1202
Status	New

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4693	4693
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4693.                           fprintf(stderr, "Downloading %s\n",
seg_url);
```

Improper Resource Access Authorization\Path 29:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1203
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4721	4721
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method GF_Err rip_mpd(const char *mpd_src, const char *output_dir)

```
....
4721.                                fprintf(stderr, "Downloading %s\n",
seg_url);
```

Improper Resource Access Authorization\Path 30:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1204
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4186	4186

Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4186.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 31:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1205
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4191	4191
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4191.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 32:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1206
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4199	4199
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4199.                   fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1207
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4205	4205
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4205.                   fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 34:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1208
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4210	4210
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c

Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4210.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 35:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1209
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4215	4215
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4215.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, 0);
```

Improper Resource Access Authorization\Path 36:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1210
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4239	4239
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4239.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, prog->pmt_pid);
```

Improper Resource Access Authorization\Path 37:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1211
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4247	4247
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4247.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, prog->pmt_pid);
```

Improper Resource Access Authorization\Path 38:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1212
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4255	4255
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4255.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\n", ts->pck_number, prog->pmt_pid);
```

Improper Resource Access Authorization\Path 39:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1213
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4312	4312
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4312.                         fprintf(dumper->timestamps_info_file,
"%u\t%d\t", pck->stream->pes_start_packet_number, pck->stream->pid);
```

Improper Resource Access Authorization\Path 40:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1214
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4313	4313
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4313.                         if (interpolated_pcr_value)
fprintf(dumper->timestamps_info_file, "%f",
interpolated_pcr_value/(300.0 * 90000));
```

Improper Resource Access Authorization\Path 41:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1215
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4314	4314
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4314.                         fprintf(dumper->timestamps_info_file,
"\t");
```

Improper Resource Access Authorization\Path 42:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1216
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4315	4315
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4315.                         if (pck->DTS) fprintf(dumper-
>timestamps_info_file, "%f", (pck->DTS / 90000.0));
```

Improper Resource Access Authorization\Path 43:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1217
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4316	4316
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4316.                         fprintf(dumper->timestamps_info_file,
"\t%f\t%d\t%d", pck->PTS / 90000.0, (pck->flags & GF_M2TS_PES_PCK_RAP) ?
1 : 0, (pck->flags & GF_M2TS_PES_PCK_DISCONTINUITY) ? 1 : 0);
```

Improper Resource Access Authorization\Path 44:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1218
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4320	4320
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4320.                                   fprintf(dumper-
>timestamps_info_file, "\t%f\n", diff);
```

Improper Resource Access Authorization\Path 45:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1219
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4325	4325
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4325.                                   fprintf(dumper-
>timestamps_info_file, "\t\n");
```

Improper Resource Access Authorization\Path 46:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1220
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4339	4339
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method static void on_m2ts_dump_event(GF_M2TS_Demuxer *ts, u32 evt_type, void *par)

```
....
4339.                    fprintf(dumper->timestamps_info_file,
"%u\t%d\t%f\t\t\t\t%d\n", pck->stream->program-
>last_pcr_value_pck_number, pck->stream->pid, pck->PTS / (300*90000.0),
(pck->flags & GF_M2TS_PES_PCK_DISCONTINUITY) ? 1 : 0);
```

Improper Resource Access Authorization\Path 47:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1221
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4384	4384
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4384.             fprintf(stderr, "No program number nor output filename
specified. No timestamp file will be generated.");
```

Improper Resource Access Authorization\Path 48:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1222
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4434	4434
Object	fprintf	fprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method	void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4434.            fprintf(stderr, "No program number specified,
defaulting to first program\n");
```

Improper Resource Access Authorization\Path 49:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1223
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4438	4438
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4438.            fprintf(stderr, "No program number nor output filename
specified. No timestamp file will be generated\n");
```

Improper Resource Access Authorization\Path 50:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1224
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4448	4448
Object	fprintf	fprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4448.            fprintf(dumper.timestamps_info_file,
"PCK#\tPID\tPCR\tDTS\tPTS\tRAP\tDiscontinuity\tDTS-PCR Diff\n");
```

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=1000028&projectid=22&pathid=965
Status	New

The variable declared in null at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 651 is not initialized when it is used by sgprivate at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 211.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	656	253
Object	null	sgprivate

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static SVG_Element *svg_parse_element(GF_SVG_Parser *parser, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes, SVG_NodeStack *parent, Bool *has_ns)

```
....
656.        SVG_Element *elt = NULL;
```

File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static void svg_process_media_href(GF_SVG_Parser *parser, GF_Node *elt, XMLRI *iri)

```
....
253.                              gf_svg_delete_attribute_value(att->data_type, att->data, elt->sgprivate->scenegraph);
```

NULL Pointer Dereference\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=966
Status	New

The variable declared in null at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1352 is not initialized when it is used by stream_name at gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c in line 1352.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	1516	1516
Object	null	stream_name

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static void svg_node_start(void *sax_cbck, const char *name, const char *name_space, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
1516.                   st->stream_name = ID ? gf_strdup(ID) : NULL;
```

NULL Pointer Dereference\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=967
Status	New

The variable declared in null at gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c in line 59 is not initialized when it is used by Pointer at gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c in line 59.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Line	221	221
Object	null	Pointer

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method static GF_Err BD_XReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
221.              * ((GF_ChildNodeItem **) targetField.far_ptr) = NULL;
```

NULL Pointer Dereference\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=968
Status	New

The variable declared in null at gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c in line 59 is not initialized when it is used by Pointer at gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c in line 59.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Line	221	221
Object	null	Pointer

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Method static GF_Err BD_XReplace(GF_BifsDecoder * codec, GF_BitStream *bs)

```
....
221.            * ((GF_ChildNodeItem **) targetField.far_ptr) = NULL;
```

NULL Pointer Dereference\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=969
Status	New

The variable declared in null at gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c in line 856 is not initialized when it is used by def_name at gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c in line 856.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c
Line	885	885
Object	null	def_name

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c
Method GF_Err BM_SceneReplace(GF_BifsDecoder *codec, GF_BitStream *bs, GF_List *com_list)

```
....
885.            ri->def_name = r->name ? gf_strdup(r->name) : NULL;
```

NULL Pointer Dereference\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=970
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c in line 3080 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c in line 3080.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	3083	3083
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err mdhd_box_size(GF_Box *s)

```
....
3083.       ptr->version = (ptr->duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=971
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c in line 4570 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c in line 4570.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	4573	4573
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err mehd_box_size(GF_Box *s)

```
....
4573.       ptr->version = (ptr->fragment_duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=972
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c in line 3080 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c in line 3080.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	3083	3083
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Err mdhd_box_size(GF_Box *s)

```
....
3083.        ptr->version = (ptr->duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=973
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c in line 4570 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c in line 4570.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	4573	4573
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Err mehd_box_size(GF_Box *s)

```
....
4573.        ptr->version = (ptr->fragment_duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=974
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c in line 3080 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c in line 3080.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	3083	3083
Object	0	version

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Err mdhd_box_size(GF_Box *s)

```
....
3083.       ptr->version = (ptr->duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=975
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c in line 4570 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c in line 4570.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	4573	4573
Object	0	version

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Err mehd_box_size(GF_Box *s)

```
....
4573.       ptr->version = (ptr->fragment_duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=976
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c in line 3080 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c in line 3080.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	3083	3083
Object	0	version

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method	GF_Err mdhd_box_size(GF_Box *s)

```
....
3083.        ptr->version = (ptr->duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=977
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c in line 4570 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c in line 4570.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	4573	4573
Object	0	version

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method	GF_Err mehd_box_size(GF_Box *s)

```
....
4573.        ptr->version = (ptr->fragment_duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 14:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=978
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c in line 3080 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c in line 3080.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	3083	3083
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method GF_Err mdhd_box_size(GF_Box *s)

```
....
3083.        ptr->version = (ptr->duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=979
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c in line 4570 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c in line 4570.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	4573	4573
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method GF_Err mehd_box_size(GF_Box *s)

```
....
4573.        ptr->version = (ptr->fragment_duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=980
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c in line 3080 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c in line 3080.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	3083	3083
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method GF_Err mdhd_box_size(GF_Box *s)

```
....
3083.        ptr->version = (ptr->duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 17:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=981
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c in line 4570 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c in line 4570.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	4573	4573
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method GF_Err mehd_box_size(GF_Box *s)

```
....
4573.        ptr->version = (ptr->fragment_duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=982
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 402 is not initialized when it is used by Marker at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 402.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Line	418	418
Object	0	Marker

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Method GF_Err gp_rtp_builder_do_avc(GP_RTPPacketizer *builder, u8 *nalu, u32 nalu_size, u8 IsAUEnd, u32 FullAUSize)

```
....
418.                builder->rtp_header.Marker = (do_flush==1) ? 1 : 0;
```

NULL Pointer Dereference\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=983
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 402 is not initialized when it is used by builder at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 402.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Line	418	432
Object	0	builder

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Method GF_Err gp_rtp_builder_do_avc(GP_RTPPacketizer *builder, u8 *nalu, u32 nalu_size, u8 IsAUEnd, u32 FullAUSize)

```
....
418.                builder->rtp_header.Marker = (do_flush==1) ? 1 : 0;
....
432.                builder->OnNewPacket(builder->cbk_obj, &builder-
>rtp_header);
```

NULL Pointer Dereference\Path 20:

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

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=984
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 402 is not initialized when it is used by rtp_header at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 402.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Line	418	432
Object	0	rtp_header

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Method GF_Err gp_rtp_builder_do_avc(GP_RTPPacketizer *builder, u8 *nalu, u32 nalu_size, u8 IsAUEnd, u32 FullAUSize)

```
....
418.                builder->rtp_header.Marker = (do_flush==1) ? 1 : 0;
....
432.                builder->OnNewPacket(builder->cbk_obj, &builder-
>rtp_header);
```

NULL Pointer Dereference\Path 21:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=985
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 539 is not initialized when it is used by Marker at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 539.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Line	552	552
Object	0	Marker

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Method GF_Err gp_rtp_builder_do_hevc(GP_RTPPacketizer *builder, u8 *nalu, u32 nalu_size, u8 IsAUEnd, u32 FullAUSize)

```
....
552.                builder->rtp_header.Marker = (do_flush==1) ? 1 : 0;
```

NULL Pointer Dereference\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=986
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 539 is not initialized when it is used by rtp_header at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 539.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Line	552	570
Object	0	rtp_header

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Method GF_Err gp_rtp_builder_do_hevc(GP_RTPPacketizer *builder, u8 *nalu, u32 nalu_size, u8 IsAUEnd, u32 FullAUSize)

```
....
552.                builder->rtp_header.Marker = (do_flush==1) ? 1 : 0;
....
570.                builder->OnNewPacket(builder->cbk_obj, &builder-
>rtp_header);
```

NULL Pointer Dereference\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=987
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 539 is not initialized when it is used by builder at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 539.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Line	552	570
Object	0	builder

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Method GF_Err gp_rtp_builder_do_hevc(GP_RTPPacketizer *builder, u8 *nalu, u32 nalu_size, u8 IsAUEnd, u32 FullAUSize)

```
....
552.              builder->rtp_header.Marker = (do_flush==1) ? 1 : 0;
....
570.              builder->OnNewPacket(builder->cbk_obj, &builder-
>rtp_header);
```

NULL Pointer Dereference\Path 24:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=988
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 695 is not initialized when it is used by Marker at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 695.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Line	708	708
Object	0	Marker

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Method	GF_Err gp_rtp_builder_do_vvc(GP_RTPPacketizer *builder, u8 *nalu, u32 nalu_size, u8 IsAUEnd, u32 FullAUSize)

```
....
708.              builder->rtp_header.Marker = (do_flush==1) ? 1 : 0;
```

NULL Pointer Dereference\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=989
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 695 is not initialized when it is used by rtp_header at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 695.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Line	708	726
Object	0	rtp_header

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Method	GF_Err gp_rtp_builder_do_vvc(GP_RTPPacketizer *builder, u8 *nalu, u32 nalu_size, u8 IsAUEnd, u32 FullAUSize)

```
....
708.            builder->rtp_header.Marker = (do_flush==1) ? 1 : 0;
....
726.            builder->OnNewPacket(builder->cbk_obj, &builder-
>rtp_header);
```

NULL Pointer Dereference\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=990
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 695 is not initialized when it is used by builder at gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c in line 695.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Line	708	726
Object	0	builder

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-29537-FP.c
Method	GF_Err gp_rtp_builder_do_vvc(GP_RTPPacketizer *builder, u8 *nalu, u32 nalu_size, u8 IsAUEnd, u32 FullAUSize)

```
....
708.            builder->rtp_header.Marker = (do_flush==1) ? 1 : 0;
....
726.            builder->OnNewPacket(builder->cbk_obj, &builder-
>rtp_header);
```

NULL Pointer Dereference\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=991
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c in line 3080 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c in line 3080.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-	gpac@@gpac-v2.2.0-CVE-2022-3178-

	FP.c	FP.c
Line	3083	3083
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Method GF_Err mdhd_box_size(GF_Box *s)

```
....
3083.        ptr->version = (ptr->duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 28:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=992
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c in line 4570 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c in line 4570.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Line	4573	4573
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Method GF_Err mehd_box_size(GF_Box *s)

```
....
4573.        ptr->version = (ptr->fragment_duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 29:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=993
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c in line 3080 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c in line 3080.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0760-	gpac@@gpac-v2.2.0-CVE-2023-0760-

	TP.c	TP.c
Line	3083	3083
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method GF_Err mdhd_box_size(GF_Box *s)

```
....
3083.        ptr->version = (ptr->duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 30:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=994
Status	New

The variable declared in 0 at gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c in line 4570 is not initialized when it is used by version at gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c in line 4570.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	4573	4573
Object	0	version

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method GF_Err mehd_box_size(GF_Box *s)

```
....
4573.        ptr->version = (ptr->fragment_duration>0xFFFFFFFF) ? 1 : 0;
```

NULL Pointer Dereference\Path 31:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=995
Status	New

The variable declared in pSamp at gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c in line 1459 is not initialized when it is used by sample_delta at gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c in line 1459.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-29340-	gpac@@gpac-v2.2.0-CVE-2022-29340-

	TP.c	TP.c
Line	1462	1471
Object	pSamp	sample_delta

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-29340-TP.c
Method GF_Err gf_isom_add_subsample_info(GF_SubSampleInformationBox *sub_samples, u32 sampleNumber, u32 subSampleSize, u8 priority, u32 reserved, Bool discardable)

```
....
1462.       GF_SubSampleInfoEntry *pSamp;
....
1471.             if (last_sample + pSamp->sample_delta > sampleNumber)
return GF_NOT_SUPPORTED;
```

NULL Pointer Dereference\Path 32:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=996
Status	New

The variable declared in pSamp at gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c in line 1459 is not initialized when it is used by sample_delta at gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c in line 1459.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c
Line	1462	1471
Object	pSamp	sample_delta

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43254-FP.c
Method GF_Err gf_isom_add_subsample_info(GF_SubSampleInformationBox *sub_samples, u32 sampleNumber, u32 subSampleSize, u8 priority, u32 reserved, Bool discardable)

```
....
1462.       GF_SubSampleInfoEntry *pSamp;
....
1471.             if (last_sample + pSamp->sample_delta > sampleNumber)
return GF_NOT_SUPPORTED;
```

NULL Pointer Dereference\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=997

Status New

The variable declared in pa at gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c in line 833 is not initialized when it is used by type at gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c in line 833.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Line	835	840
Object	pa	type

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Method static void naludmx_add_param_nalu(GF_List *param_list, GF_NALUFFParam *sl, u8 nal_type)

```
....
835.        GF_NALUFFParamArray *pa = NULL;
....
840.             if (pa->type == nal_type) break;
```

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=1000028&projectid=22&pathid=1006
Status New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	248	248
Object	bytesToRead	bytesToRead

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method GF_Err cprt_box_read(GF_Box *s,GF_BitStream *bs)

```
....
248.             ptr->notice[bytesToRead] = 0;
```

Unchecked Array Index\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1007
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Line	2607	2607
Object	length	length

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-11558-FP.c
Method	GF_Err payt_box_read(GF_Box *s, GF_BitStream *bs)

```
....
2607.        ptr->payloadString[length] = 0;
```

Unchecked Array Index\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1008
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c	gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c
Line	166	166
Object	dataSize	dataSize

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c
Method	GF_Err ilst_item_box_read(GF_Box *s,GF_BitStream *bs)

```
....
166.               ptr->data->data[ptr->data->dataSize] = 0;
```

Unchecked Array Index\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1009

Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c	gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c
Line	1019	1019
Object	size	size

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-19488-FP.c
Method GF_Err keys_box_read(GF_Box *s, GF_BitStream *bs)

```
....
1019.               k->data[k->size]=0;
```

Unchecked Array Index\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1010
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Line	248	248
Object	bytesToRead	bytesToRead

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Err cprt_box_read(GF_Box *s,GF_BitStream *bs)

```
....
248.                ptr->notice[bytesToRead] = 0;
```

Unchecked Array Index\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1011
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c	gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c

Line	2607	2607
Object	length	length

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-21852-FP.c
Method GF_Err payt_box_read(GF_Box *s, GF_BitStream *bs)

```
....
2607.       ptr->payloadString[length] = 0;
```

Unchecked Array Index\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1012
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-31254-FP.c	gpac@@gpac-v2.2.0-CVE-2021-31254-FP.c
Line	154	154
Object	len	len

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-31254-FP.c
Method GF_Err schm_box_read(GF_Box *s, GF_BitStream *bs)

```
....
154.            ptr->URI[len] = 0;
```

Unchecked Array Index\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1013
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	248	248
Object	bytesToRead	bytesToRead

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c

Method	GF_Err cprt_box_read(GF_Box *s,GF_BitStream *bs)

```
....
248.              ptr->notice[bytesToRead] = 0;
```

Unchecked Array Index\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1014
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Line	2607	2607
Object	length	length

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32134-FP.c
Method	GF_Err payt_box_read(GF_Box *s, GF_BitStream *bs)

```
....
2607.        ptr->payloadString[length] = 0;
```

Unchecked Array Index\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1015
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	248	248
Object	bytesToRead	bytesToRead

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method	GF_Err cprt_box_read(GF_Box *s,GF_BitStream *bs)

```
....
248.              ptr->notice[bytesToRead] = 0;
```

Unchecked Array Index\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1016
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Line	2607	2607
Object	length	length

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-32268-FP.c
Method	GF_Err payt_box_read(GF_Box *s, GF_BitStream *bs)

```
....
2607.        ptr->payloadString[length] = 0;
```

Unchecked Array Index\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1017
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	248	248
Object	bytesToRead	bytesToRead

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method	GF_Err cprt_box_read(GF_Box *s,GF_BitStream *bs)

```
....
248.              ptr->notice[bytesToRead] = 0;
```

Unchecked Array Index\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1018
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c	gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Line	2607	2607
Object	length	length

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-4043-FP.c
Method GF_Err payt_box_read(GF_Box *s, GF_BitStream *bs)

```
....
2607.        ptr->payloadString[length] = 0;
```

Unchecked Array Index\Path 14:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1019
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	248	248
Object	bytesToRead	bytesToRead

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method GF_Err cprt_box_read(GF_Box *s,GF_BitStream *bs)

```
....
248.                ptr->notice[bytesToRead] = 0;
```

Unchecked Array Index\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1020
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c	gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Line	2607	2607

Object	length	length

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-24577-FP.c
Method GF_Err payt_box_read(GF_Box *s, GF_BitStream *bs)

```
....
2607.        ptr->payloadString[length] = 0;
```

Unchecked Array Index\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1021
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Line	248	248
Object	bytesToRead	bytesToRead

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Method GF_Err cprt_box_read(GF_Box *s,GF_BitStream *bs)

```
....
248.                ptr->notice[bytesToRead] = 0;
```

Unchecked Array Index\Path 17:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1022
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Line	2607	2607
Object	length	length

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3178-FP.c
Method GF_Err payt_box_read(GF_Box *s, GF_BitStream *bs)

```
....
2607.        ptr->payloadString[length] = 0;
```

Unchecked Array Index\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1023
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	237	237
Object	size	size

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static void svg_process_media_href(GF_SVG_Parser *parser, GF_Node *elt, XMLRI *iri)

```
....
237.                        buffer[size]=0;
```

Unchecked Array Index\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1024
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	266	266
Object	size64	size64

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static void svg_process_media_href(GF_SVG_Parser *parser, GF_Node *elt, XMLRI *iri)

```
....
266.                        buf64[size64] = 0;
```

Unchecked Array Index\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1025
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	808	808
Object	k	k

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
808.                        value[k] = str[i];
```

Unchecked Array Index\Path 21:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1026
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	814	814
Object	k	k

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static u32 xmt_parse_string(GF_XMTParser *parser, const char *name, SFString *val, Bool is_mf, char *a_value)

```
....
814.        value[k] = 0;
```

Unchecked Array Index\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22

	&pathid=1027
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	2425	2425
Object	del_proto_list_size	del_proto_list_size

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static void xmt_parse_command(GF_XMTParser *parser, const char *name, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
2425.                                   parser->command-
>del_proto_list[parser->command->del_proto_list_size] = p->ID;
```

Unchecked Array Index\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1028
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	2497	2497
Object	NbESDs	NbESDs

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static void xmt_parse_command(GF_XMTParser *parser, const char *name, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
2497.                                   esdR->ES_ID[esdR->NbESDs] = es_id;
```

Unchecked Array Index\Path 24:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1029
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	2516	2516
Object	NbODs	NbODs

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static void xmt_parse_command(GF_XMTParser *parser, const char *name, const GF_XMLAttribute *attributes, u32 nb_attributes)

```
....
2516.                               odR->OD_ID[odR->NbODs] = od_id;
```

Unchecked Array Index\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1030
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	248	248
Object	bytesToRead	bytesToRead

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c

Method GF_Err cprt_box_read(GF_Box *s,GF_BitStream *bs)

```
....
248.              ptr->notice[bytesToRead] = 0;
```

Unchecked Array Index\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1031
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c	gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Line	2607	2607

Object	length	length

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-0760-TP.c
Method GF_Err payt_box_read(GF_Box *s, GF_BitStream *bs)

```
....
2607.       ptr->payloadString[length] = 0;
```

Unchecked Array Index\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1032
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Line	1010	1010
Object	num_layers_dependent_on	num_layers_dependent_on

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Method GF_Err naludmx_set_hevc_oinf(GF_NALUDmxCtx *ctx, u8 *max_temporal_id)

```
....
1010.                       dep->dependent_on_layerID[dep->num_layers_dependent_on] = j;
```

Unchecked Array Index\Path 28:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1033
Status	New

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c	gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c
Line	219	219
Object	count	count

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-41000-TP.c

Method	static GF_Err BM_ParseProtoDelete(GF_BifsDecoder *codec, GF_BitStream *bs, GF_List *com_list)

```
....
219.                    com->del_proto_list[count] = gf_bs_read_int(bs,
codec->info->config.ProtoIDBits);
```

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=1000028&projectid=22&pathid=946
Status	New

The dump_mpeg2_ts method calls the sprintf function, at line 4373 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.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	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4405	4405
Object	sprintf	sprintf

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method	void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4405.                   sprintf(dumper.dump, "%s_%d.raw", out_name,
dumper.dump_pid);
```

Unchecked Return Value\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=947
Status	New

The dump_mpeg2_ts method calls the sprintf function, at line 4373 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.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	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4442	4442
Object	sprintf	sprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4442.                sprintf(dumper.timestamps_info_name,
"%s_prog_%d_timestamps.txt", mpeg2ts_file, prog_num/*, mpeg2ts_file*/);
```

Unchecked Return Value\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=948
Status	New

The dump_mpeg2_ts method calls the sprintf function, at line 4373 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.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	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4405	4405
Object	sprintf	sprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4405.                      sprintf(dumper.dump, "%s_%d.raw", out_name,
dumper.dump_pid);
```

Unchecked Return Value\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=949
Status	New

The dump_mpeg2_ts method calls the sprintf function, at line 4373 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.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	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4442	4442
Object	sprintf	sprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4442.                  sprintf(dumper.timestamps_info_name,
"%s_prog_%d_timestamps.txt", mpeg2ts_file, prog_num/*, mpeg2ts_file*/);
```

Unchecked Return Value\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=950
Status	New

The svg_process_media_href method calls the sprintf function, at line 211 of gpac@@gpac-v2.2.0-CVE-2022-3957-FP.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	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	275	275
Object	sprintf	sprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method static void svg_process_media_href(GF_SVG_Parser *parser, GF_Node *elt, XMLRI *iri)

```
....
275.                        sprintf(iri->string, "data:%s;base64,%s", mtype,
buf64);
```

Unchecked Return Value\Path 6:

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

	PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=951
Status	New

The gf_bifs_dec_proto_list method calls the sprintf function, at line 999 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Line	1033	1033
Object	sprintf	sprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method	GF_Err gf_bifs_dec_proto_list(GF_BifsDecoder * codec, GF_BitStream *bs, GF_List *proto_list)

```
....
1033.                    sprintf(name, "Proto%d", gf_list_count(codec-
>current_graph->protos) );
```

Unchecked Return Value\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=952
Status	New

The gf_bifs_dec_proto_list method calls the sprintf function, at line 999 of gpac@@gpac-v2.2.0-CVE-2022-43043-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Line	1057	1057
Object	sprintf	sprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43043-FP.c
Method	GF_Err gf_bifs_dec_proto_list(GF_BifsDecoder * codec, GF_BitStream *bs, GF_List *proto_list)

```
....
1057.                          sprintf(name, "_field%d", numFields);
```

Unchecked Return Value\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=953
Status	New

The xmt_new_od_link method calls the sprintf function, at line 181 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	192	192
Object	sprintf	sprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method static void xmt_new_od_link(GF_XMTParser *parser, GF_ObjectDescriptor *od, char *name, u32 ID)

```
....
192.                    sprintf(szURL, "%u", ID);
```

Unchecked Return Value\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=954
Status	New

The xmt_new_od_link_from_node method calls the sprintf function, at line 240 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	252	252
Object	sprintf	sprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method static void xmt_new_od_link_from_node(GF_XMTParser *parser, char *name, MFURL *url)

```
....
252.                sprintf(szURL, "%u", ID);
```

Unchecked Return Value\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=955
Status	New

The xmt_locate_stream method calls the sprintf function, at line 381 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	391	391
Object	sprintf	sprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method static u32 xmt_locate_stream(GF_XMTParser *parser, char *stream_name)

```
....
391.                      sprintf(szN, "es%d", esdl->ESID);
```

Unchecked Return Value\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=956
Status	New

The xmt_locate_stream method calls the sprintf function, at line 381 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	393	393
Object	sprintf	sprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c

Method static u32 xmt_locate_stream(GF_XMTParser *parser, char *stream_name)

```
....
393.                        sprintf(szN, "%d", esdl->ESID);
```

Unchecked Return Value\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=957
Status	New

The xmt_locate_stream method calls the sprintf function, at line 381 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	402	402
Object	sprintf	sprintf

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method static u32 xmt_locate_stream(GF_XMTParser *parser, char *stream_name)

```
....
402.                        sprintf(szN, "%d", sc->ESID);
```

Unchecked Return Value\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=958
Status	New

The xmt_resolve_od_links method calls the sprintf function, at line 427 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	465	465
Object	sprintf	sprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static void xmt_resolve_od_links(GF_XMTParser *parser)

```
....
465.                    sprintf(szTest, "%d", ocr_id);
```

Unchecked Return Value\Path 14:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=959
Status	New

The xmt_resolve_od_links method calls the sprintf function, at line 427 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	498	498
Object	sprintf	sprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static void xmt_resolve_od_links(GF_XMTParser *parser)

```
....
498.                    sprintf(szTest, "%d", dep_id);
```

Unchecked Return Value\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=960
Status	New

The xmt_resolve_od_links method calls the sprintf function, at line 427 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.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	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	585	585
Object	sprintf	sprintf

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static void xmt_resolve_od_links(GF_XMTParser *parser)

```
....
585.                                    sprintf(szURL, "od:%d#%s", l-
>od->objectDescriptorID, seg+1);
```

Unchecked Return Value\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=961
Status	New

The naludmx_process method calls the sprintf function, at line 3027 of gpac@@gpac-v2.2.0-CVE-2023-2839-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	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Line	3831	3831
Object	sprintf	sprintf

Code Snippet	
File Name	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Method	GF_Err naludmx_process(GF_Filter *filter)

```
....
3831.            sprintf(szStatus, "%s %dx%d % 10d NALU % 8d I % 8d P %
8d B % 8d SEI", ctx->log_name, ctx->width, ctx->height, ctx->nb_nalus,
ctx->nb_i, ctx->nb_p, ctx->nb_b, ctx->nb_sei);
```

Unchecked Return Value\Path 17:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=962
Status	New

The id3dmx_flush method calls the sprintf function, at line 225 of gpac@@gpac-v2.2.0-CVE-2023-3291-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	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c

Line	326	326
Object	sprintf	sprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c
Method	void id3dmx_flush(GF_Filter *filter, u8 *id3_buf, u32 id3_buf_size, GF_FilterPid *audio_pid, GF_FilterPid **video_pid_p)

```
....
326.                        sprintf(szTag, "tag_%s", gf_4cc_to_str(ftag));
```

Unchecked Return Value\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=963
Status	New

The gf_bifs_dec_proto_list method calls the sprintf function, at line 999 of gpac@@gpac-v2.2.0-CVE-2023-37767-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	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Line	1033	1033
Object	sprintf	sprintf

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Method	GF_Err gf_bifs_dec_proto_list(GF_BifsDecoder * codec, GF_BitStream *bs, GF_List *proto_list)

```
....
1033.                       sprintf(name, "Proto%d", gf_list_count(codec-
>current_graph->protos) );
```

Unchecked Return Value\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=964
Status	New

The gf_bifs_dec_proto_list method calls the sprintf function, at line 999 of gpac@@gpac-v2.2.0-CVE-2023-37767-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	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c	gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c
Line	1057	1057
Object	sprintf	sprintf

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2023-37767-TP.c

Method GF_Err gf_bifs_dec_proto_list(GF_BifsDecoder * codec, GF_BitStream *bs, GF_List *proto_list)

```
....
1057.                           sprintf(name, "_field%d", numFields);
```

Potential Precision Problem

Query Path:

CPP\Cx\CPP Buffer Overflow\Potential Precision Problem Version:0

Categories

NIST SP 800-53: SI-10 Information Input Validation (P1)
OWASP Top 10 2017: A1-Injection

Description

Potential Precision Problem\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=998
Status	New

The size of the buffer used by dump_mpeg2_ts in "%s_%d.raw", at line 4373 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dump_mpeg2_ts passes to "%s_%d.raw", at line 4373 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4405	4405
Object	"%s_%d.raw"	"%s_%d.raw"

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c

Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4405.                   sprintf(dumper.dump, "%s_%d.raw", out_name,
dumper.dump_pid);
```

Potential Precision Problem\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=999
Status	New

The size of the buffer used by dump_mpeg2_ts in "%s_prog_%d_timestamps.txt", at line 4373 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dump_mpeg2_ts passes to "%s_prog_%d_timestamps.txt", at line 4373 of gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c	gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c
Line	4442	4442
Object	"%s_prog_%d_timestamps.txt"	"%s_prog_%d_timestamps.txt"

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2020-23932-FP.c

Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4442.               sprintf(dumper.timestamps_info_name,
"%s_prog_%d_timestamps.txt", mpeg2ts_file, prog_num/*, mpeg2ts_file*/);
```

Potential Precision Problem\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1000
Status	New

The size of the buffer used by dump_mpeg2_ts in "%s_%d.raw", at line 4373 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dump_mpeg2_ts passes to "%s_%d.raw", at line 4373 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4405	4405
Object	"%s_%d.raw"	"%s_%d.raw"

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c

Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4405.                   sprintf(dumper.dump, "%s_%d.raw", out_name,
dumper.dump_pid);
```

Potential Precision Problem\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1001
Status	New

The size of the buffer used by dump_mpeg2_ts in "%s_prog_%d_timestamps.txt", at line 4373 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dump_mpeg2_ts passes to "%s_prog_%d_timestamps.txt", at line 4373 of gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c	gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c
Line	4442	4442
Object	"%s_prog_%d_timestamps.txt"	"%s_prog_%d_timestamps.txt"

Code Snippet

File Name gpac@@gpac-v2.2.0-CVE-2021-32136-FP.c

Method void dump_mpeg2_ts(char *mpeg2ts_file, char *out_name, Bool prog_num)

```
....
4442.                   sprintf(dumper.timestamps_info_name,
"%s_prog_%d_timestamps.txt", mpeg2ts_file, prog_num/*, mpeg2ts_file*/);
```

Potential Precision Problem\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1002
Status	New

The size of the buffer used by svg_process_media_href in "data:%s;base64,%s", at line 211 of gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that svg_process_media_href passes to "data:%s;base64,%s", at line 211 of gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Line	275	275
Object	"data:%s;base64,%s"	"data:%s;base64,%s"

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-3957-FP.c
Method	static void svg_process_media_href(GF_SVG_Parser *parser, GF_Node *elt, XMLRI *iri)

```
....
275.                    sprintf(iri->string, "data:%s;base64,%s", mtype,
buf64);
```

Potential Precision Problem\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1003
Status	New

The size of the buffer used by xmt_resolve_od_links in "od:%d#%s", at line 427 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that xmt_resolve_od_links passes to "od:%d#%s", at line 427 of gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Line	585	585
Object	"od:%d#%s"	"od:%d#%s"

Code Snippet

File Name	gpac@@gpac-v2.2.0-CVE-2022-43255-FP.c
Method	static void xmt_resolve_od_links(GF_XMTParser *parser)

```
....
585.                                sprintf(szURL, "od:%d#%s", l-
>od->objectDescriptorID, seg+1);
```

Potential Precision Problem\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1004
Status	New

The size of the buffer used by naludmx_process in "%s %dx%d % 10d NALU % 8d I % 8d P % 8d B % 8d SEI", at line 3027 of gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that naludmx_process passes to "%s %dx%d % 10d NALU % 8d I % 8d P % 8d B % 8d SEI", at line 3027 of gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c, to overwrite the target buffer.

	Source	Destination

File	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c	gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Line	3831	3831
Object	"%s %dx%d % 10d NALU % 8d I % 8d P % 8d B % 8d SEI"	"%s %dx%d % 10d NALU % 8d I % 8d P % 8d B % 8d SEI"

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-2839-TP.c
Method GF_Err naludmx_process(GF_Filter *filter)

```
....
3831.              sprintf(szStatus, "%s %dx%d % 10d NALU % 8d I % 8d P % 
8d B % 8d SEI", ctx->log_name, ctx->width, ctx->height, ctx->nb_nalus, 
ctx->nb_i, ctx->nb_p, ctx->nb_b, ctx->nb_sei);
```

Potential Precision Problem\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-PTJMSNK3USL/CxWebClient/ViewerMain.aspx?scanid=1000028&projectid=22&pathid=1005
Status	New

The size of the buffer used by id3dmx_flush in "tag_%s", at line 225 of gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that id3dmx_flush passes to "tag_%s", at line 225 of gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c, to overwrite the target buffer.

	Source	Destination
File	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c	gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c
Line	326	326
Object	"tag_%s"	"tag_%s"

Code Snippet
File Name gpac@@gpac-v2.2.0-CVE-2023-3291-TP.c
Method void id3dmx_flush(GF_Filter *filter, u8 *id3_buf, u32 id3_buf_size, GF_FilterPid *audio_pid, GF_FilterPid **video_pid_p)

```
....
326.                    sprintf(szTag, "tag_%s", gf_4cc_to_str(ftag));
```

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 it's 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 occuring.

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 it's 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;
```

```c
char buffer[BUFFER_SIZE];

void copyStringToBuffer(char* inputString)
{
    if (strnlen(inputString, MAX_INPUT_SIZE) < sizeof(buffer))
    {
        strncpy(buffer, inputString, sizeof(buffer));
    }
}
```

Buffer Overflow Loops

Risk

What might happen

An off by one error may result in overwriting or over-reading of unintended memory; in most cases, this can result in unexpected behavior and even application crashes. In other cases, where allocation can be controlled by an attacker, a combination of variable assignment and an off by one error can result in execution of malicious code.

Cause

How does it happen

Often when designating variables to memory, a calculation error may occur when determining size or length that is off by one.

For example in loops, when allocating an array of size 2, its cells are counted as 0,1 - therefore, if a For loop iterator on the array is incorrectly set with the start condition i=0 and the continuation condition i<=2, three cells will be accessed instead of 2, and an attempt will be made to write or read cell [2], which was not originally allocated, resulting in potential corruption of memory outside the bounds of the originally assigned array.

Another example occurs when a null-byte terminated string, in the form of a character array, is copied without its terminating null-byte. Without the null-byte, the string representation is unterminated, resulting in certain functions to over-read memory as they expect the missing null terminator.

General Recommendations

How to avoid it

- Always ensure that a given iteration boundary is correct:
    - With array iterations, consider that arrays begin with cell 0 and end with cell n-1, for a size n array.
    - With character arrays and null-byte terminated string representations, consider that the null byte is required and should not be overwritten or ignored; ensure functions in use are not vulnerable to off-by-one, specifically for instances where null-bytes are automatically appended after the buffer, instead of in place of its last character.
- Where possible, use safe functions that manage memory and are not prone to off-by-one errors.

Source Code Examples

CPP

Off-By-One in For Loop

```
int *ptr;
ptr = (int*)malloc(5 * sizeof(int));
for (int i = 0; i <= 5; i++)
{
      ptr[i] = i * 2 + 1; // ptr[5] will be set, but is out of bounds
}
```

Proper Iteration in For Loop

```
int *ptr;
ptr = (int*)malloc(5 * sizeof(int));
for (int i = 0; i < 5; i++)
{
      ptr[i] = i * 2 + 1; // ptr[0-4] are well defined
}
```

Off-By-One in strncat

```
strncat(buf, input, sizeof(buf) - strlen(buf)); // actual value should be sizeof(buf)-
strlen(buf)-1 - this form will overwrite the terminating nullbyte
```

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;
}
```

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

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 funciton. These functions often return error codes in the result, or share other status codes with it's 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';
```

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

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());
```

Potential Precision Problem

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 it's 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

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 ArrayIndexOutOfBounds 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 comes 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

BACK TO TOP

Improper Access Control (Authorization)

Weakness ID: 285 *(Weakness Class)* **Status:** Draft

Description

Description Summary

The software does not perform or incorrectly performs access control checks across all potential execution paths.

Extended Description

When access control checks are not applied consistently - or not at all - users are able to access data or perform actions that they should not be allowed to perform. This can lead to a wide range of problems, including information leaks, denial of service, and arbitrary code execution.

Alternate Terms

AuthZ:	"AuthZ" is typically used as an abbreviation of "authorization" within the web application security community. It is also distinct from "AuthC," which is an abbreviation of "authentication." The use of "Auth" as an abbreviation is discouraged, since it could be used for either authentication or authorization.

Time of Introduction

- Architecture and Design
- Implementation
- Operation

Applicable Platforms

Languages

Language-independent

Technology Classes

Web-Server: *(Often)*

Database-Server: *(Often)*

Modes of Introduction

A developer may introduce authorization weaknesses because of a lack of understanding about the underlying technologies. For example, a developer may assume that attackers cannot modify certain inputs such as headers or cookies.

Authorization weaknesses may arise when a single-user application is ported to a multi-user environment.

Common Consequences

Scope	Effect
Confidentiality	An attacker could read sensitive data, either by reading the data directly from a data store that is not properly restricted, or by accessing insufficiently-protected, privileged functionality to read the data.
Integrity	An attacker could modify sensitive data, either by writing the data directly to a data store that is not properly restricted, or by accessing insufficiently-protected, privileged functionality to write the data.
Integrity	An attacker could gain privileges by modifying or reading critical data directly, or by accessing insufficiently-protected, privileged functionality.

Likelihood of Exploit

High

Detection Methods

Automated Static Analysis

Automated static analysis is useful for detecting commonly-used idioms for authorization. A tool may be able to analyze related configuration files, such as .htaccess in Apache web servers, or detect the usage of commonly-used authorization libraries.

Generally, automated static analysis tools have difficulty detecting custom authorization schemes. In addition, the software's design may include some functionality that is accessible to any user and does not require an authorization check; an automated technique that detects the absence of authorization may report false positives.

Effectiveness: Limited

Automated Dynamic Analysis

Automated dynamic analysis may find many or all possible interfaces that do not require authorization, but manual analysis is required to determine if the lack of authorization violates business logic

Manual Analysis

This weakness can be detected using 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.

Specifically, manual static analysis is useful for evaluating the correctness of custom authorization mechanisms.

Effectiveness: Moderate

These may be more effective than strictly automated techniques. This is especially the case with weaknesses that are related to design and business rules. However, manual efforts might not achieve desired code coverage within limited time constraints.

Demonstrative Examples

Example 1

The following program could be part of a bulletin board system that allows users to send private messages to each other. This program intends to authenticate the user before deciding whether a private message should be displayed. Assume that LookupMessageObject() ensures that the $id argument is numeric, constructs a filename based on that id, and reads the message details from that file. Also assume that the program stores all private messages for all users in the same directory.

(Bad Code)

Example Language: **Perl**

```
sub DisplayPrivateMessage {
my($id) = @_;
my $Message = LookupMessageObject($id);
print "From: " . encodeHTML($Message->{from}) . "<br>\n";
print "Subject: " . encodeHTML($Message->{subject}) . "\n";
print "<hr>\n";
print "Body: " . encodeHTML($Message->{body}) . "\n";
}

my $q = new CGI;
# For purposes of this example, assume that CWE-309 and
# CWE-523 do not apply.
if (! AuthenticateUser($q->param('username'), $q->param('password'))) {
ExitError("invalid username or password");
}

my $id = $q->param('id');
DisplayPrivateMessage($id);
```

While the program properly exits if authentication fails, it does not ensure that the message is addressed to the user. As a result, an authenticated attacker could provide any arbitrary identifier and read private messages that were intended for other users.

One way to avoid this problem would be to ensure that the "to" field in the message object matches the username of the authenticated user.

Observed Examples

Reference	Description
CVE-2009-3168	Web application does not restrict access to admin scripts, allowing authenticated users to reset administrative passwords.

CVE-2009-2960	Web application does not restrict access to admin scripts, allowing authenticated users to modify passwords of other users.
CVE-2009-3597	Web application stores database file under the web root with insufficient access control (CWE-219), allowing direct request.
CVE-2009-2282	Terminal server does not check authorization for guest access.
CVE-2009-3230	Database server does not use appropriate privileges for certain sensitive operations.
CVE-2009-2213	Gateway uses default "Allow" configuration for its authorization settings.
CVE-2009-0034	Chain: product does not properly interpret a configuration option for a system group, allowing users to gain privileges.
CVE-2008-6123	Chain: SNMP product does not properly parse a configuration option for which hosts are allowed to connect, allowing unauthorized IP addresses to connect.
CVE-2008-5027	System monitoring software allows users to bypass authorization by creating custom forms.
CVE-2008-7109	Chain: reliance on client-side security (CWE-602) allows attackers to bypass authorization using a custom client.
CVE-2008-3424	Chain: product does not properly handle wildcards in an authorization policy list, allowing unintended access.
CVE-2009-3781	Content management system does not check access permissions for private files, allowing others to view those files.
CVE-2008-4577	ACL-based protection mechanism treats negative access rights as if they are positive, allowing bypass of intended restrictions.
CVE-2008-6548	Product does not check the ACL of a page accessed using an "include" directive, allowing attackers to read unauthorized files.
CVE-2007-2925	Default ACL list for a DNS server does not set certain ACLs, allowing unauthorized DNS queries.
CVE-2006-6679	Product relies on the X-Forwarded-For HTTP header for authorization, allowing unintended access by spoofing the header.
CVE-2005-3623	OS kernel does not check for a certain privilege before setting ACLs for files.
CVE-2005-2801	Chain: file-system code performs an incorrect comparison (CWE-697), preventing defauls ACLs from being properly applied.
CVE-2001-1155	Chain: product does not properly check the result of a reverse DNS lookup because of operator precedence (CWE-783), allowing bypass of DNS-based access restrictions.

Potential Mitigations

Phase: Architecture and Design

Divide your application into anonymous, normal, privileged, and administrative areas. Reduce the attack surface by carefully mapping roles with data and functionality. Use role-based access control (RBAC) to enforce the roles at the appropriate boundaries.

Note that this approach may not protect against horizontal authorization, i.e., it will not protect a user from attacking others with the same role.

Phase: Architecture and Design

Ensure that you perform access control checks related to your business logic. These checks may be different than the access control checks that you apply to more generic resources such as files, connections, processes, memory, and database records. For example, a database may restrict access for medical records to a specific database user, but each record might only be intended to be accessible to the patient and the patient's doctor.

Phase: Architecture and Design

Strategy: Libraries or Frameworks

Use a vetted library or framework that does not allow this weakness to occur or provides constructs that make this weakness easier to avoid.

For example, consider using authorization frameworks such as the JAAS Authorization Framework and the OWASP ESAPI Access Control feature.

Phase: Architecture and Design

For web applications, make sure that the access control mechanism is enforced correctly at the server side on every page. Users should not be able to access any unauthorized functionality or information by simply requesting direct access to that page.

One way to do this is to ensure that all pages containing sensitive information are not cached, and that all such pages restrict access to requests that are accompanied by an active and authenticated session token associated with a user who has the required permissions to access that page.

Phases: System Configuration; Installation

Use the access control capabilities of your operating system and server environment and define your access control lists accordingly. Use a "default deny" policy when defining these ACLs.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Category	254	Security Features	**Seven Pernicious Kingdoms (primary)700**
ChildOf	Weakness Class	284	Access Control (Authorization) Issues	**Development Concepts (primary)699** **Research Concepts (primary)1000**
ChildOf	Category	721	OWASP Top Ten 2007 Category A10 - Failure to Restrict URL Access	**Weaknesses in OWASP Top Ten (2007) (primary)629**
ChildOf	Category	723	OWASP Top Ten 2004 Category A2 - Broken Access Control	**Weaknesses in OWASP Top Ten (2004) (primary)711**
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**
ParentOf	Weakness Variant	219	Sensitive Data Under Web Root	**Research Concepts (primary)1000**
ParentOf	Weakness Base	551	Incorrect Behavior Order: Authorization Before Parsing and Canonicalization	**Development Concepts (primary)699** Research Concepts1000
ParentOf	Weakness Class	638	Failure to Use Complete Mediation	Research Concepts1000
ParentOf	Weakness Base	804	Guessable CAPTCHA	**Development Concepts (primary)699** **Research Concepts (primary)1000**

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
7 Pernicious Kingdoms			Missing Access Control
OWASP Top Ten 2007	A10	CWE More Specific	Failure to Restrict URL Access
OWASP Top Ten 2004	A2	CWE More Specific	Broken Access Control

Related Attack Patterns

CAPEC-ID	Attack Pattern Name	*(CAPEC Version: 1.5)*
1	Accessing Functionality Not Properly Constrained by ACLs	
13	Subverting Environment Variable Values	

17	Accessing, Modifying or Executing Executable Files
87	Forceful Browsing
39	Manipulating Opaque Client-based Data Tokens
45	Buffer Overflow via Symbolic Links
51	Poison Web Service Registry
59	Session Credential Falsification through Prediction
60	Reusing Session IDs (aka Session Replay)
77	Manipulating User-Controlled Variables
76	Manipulating Input to File System Calls
104	Cross Zone Scripting

References

NIST. "Role Based Access Control and Role Based Security". <http://csrc.nist.gov/groups/SNS/rbac/>.

[REF-11] M. Howard and D. LeBlanc. "Writing Secure Code". Chapter 4, "Authorization" Page 114; Chapter 6, "Determining Appropriate Access Control" Page 171. 2nd Edition. Microsoft. 2002.

Content History

Submissions

Submission Date	Submitter	Organization	Source
	7 Pernicious Kingdoms		Externally Mined

Modifications

Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci	Cigital	External
	updated Time of Introduction		
2008-08-15		Veracode	External
	Suggested OWASP Top Ten 2004 mapping		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Relationships, Other Notes, Taxonomy Mappings		
2009-01-12	CWE Content Team	MITRE	Internal
	updated Common Consequences, Description, Likelihood of Exploit, Name, Other Notes, Potential Mitigations, References, Relationships		
2009-03-10	CWE Content Team	MITRE	Internal
	updated Potential Mitigations		
2009-05-27	CWE Content Team	MITRE	Internal
	updated Description, Related Attack Patterns		
2009-07-27	CWE Content Team	MITRE	Internal
	updated Relationships		
2009-10-29	CWE Content Team	MITRE	Internal
	updated Type		
2009-12-28	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Demonstrative Examples, Detection Factors, Modes of Introduction, Observed Examples, Relationships		
2010-02-16	CWE Content Team	MITRE	Internal
	updated Alternate Terms, Detection Factors, Potential Mitigations, References, Relationships		
2010-04-05	CWE Content Team	MITRE	Internal
	updated Potential Mitigations		

Previous Entry Names

Change Date	Previous Entry Name
2009-01-12	Missing or Inconsistent Access Control

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Scanned Languages

Language	Hash Number	Change Date
CPP	4541647240435660	1/6/2025
Common	0105849645654507	1/6/2025