



Security advisory

Multiple Stored Cross Site Scripting (IrisNext 9.5.16)

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CVE-2021-27930

Release date: 29/06/2021

Department: POST Cyberforce

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Vulnerability summary

Product	IrisNext
Product homepage	https://iriscorporate.com
Affected product versions	9.5.16
Severity	Medium: CVSS v3.1 score 5.4
CVSS v3.1	CVSS:3.1/AV:N/AC:L/PR:L/UI:R/S:C/C:L/I:L/A:N
MITRE ATT&CK	T1059, TA0002
OWASP	OWASP 2017-A7
CWE	CWE-79
Workarounds	No workarounds available
Fixed product versions	9.5.18 and later

Validated impact:

- Client-side remote code execution;
- Users sessions hi-jacking;
- Privilege escalation;

Timeline

Date	Action
February 23 th , 2021	Vulnerability identification during pentest mission.
March 2 nd , 2021	First contact with the editor (IrisNext Team).
March 3 rd , 2021	Submit a CVE request to https://cveform.mitre.org/
March 3 rd , 2021	Ticket created for CVE ID Request "1037953".
March 3 rd , 2021	CVE-2021-27930 attributed by Mitre.
March 4 th , 2021	2 nd contact with the editor to inform him that CVE-2021-27930 was attributed.
March 4 th , 2021	3 rd contact with another platform "Conversation ID: 157590" -> https://support.irislink.com/en-us/conversation/new/2
March 8 th , 2021	1 st response from IrisNext Team. Advisory sent to IRISNext R&D product manager.
March 11 th , 2021	Fix release in IrisNext Edition 9.5.17
March 23 th , 2021	Test of IrisNext Edition 9.5.17 -> The fix is not efficient.
March 25 th , 2021	Fix release in IrisNext Edition 9.5.18.
March 25 th , 2021	Test of IrisNext Edition 9.5.18 -> Fixed.

References :

- <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-27930>
- <https://attack.mitre.org/techniques/T1059/>
- <https://attack.mitre.org/tactics/TA0002/>
- [https://owasp.org/www-project-top-ten/2017/de/A7_2017-Cross-Site_Scripting_\(XSS\)](https://owasp.org/www-project-top-ten/2017/de/A7_2017-Cross-Site_Scripting_(XSS))
- <https://cwe.mitre.org/data/definitions/79.html>

Product description

IRISNext is an electronic content management, allows document management and business process Mmanagement, directly within the browser:

1- Document management:

- dematerialized, indexed, centralized and traceable content;
- document retrieval;
- collaborative work (document edition, MS Office integration).

2- Business process management:

- tasks (distribution, schedules, sequencing and follow-up);
- customizable business workflows (ex. invoice approval, including line items, routing of requests, etc.).

Advisory

During the penetration test POST Cyberforce identified multiple stored XSS vulnerabilities in IrisNext Edition 9.5.16, which allows an authenticated (or compromised) user to inject malicious Javascript in folder/file name within the application in order to grab other users' sessions or execute malicious code in their browsers (1-click RCE).

Vulnerability description

The application allows users to edit and share documents/folders. However, by injection a malicious Javascript in documents/folders names it's possible to redirect users to malicious website, grab their sessions or execute malicious code in their browsers.

Once an authenticated user try to delete document/folder (in which the JS script was injected), the code will be automatically executed. It is important to mention that this attack is possible from all users who have edit feature.

Proof of concept

Here are the steps to reproduce:

- 1) Login on the IrisNext application;
- 2) Go to 'Document tree';

- 3) Create a new folder with JS inside (from security option, check if this folder is shared, otherwise share it with other users);
- 4) From another user session, browser this folder → click on it and try to delete it → JS code will automatically executed.

Recommendation

- Upgrade to IrisNext Edition 9.5.18 or later.