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EQS Integrity Line: Multiple Vulnerabilities

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Date: Wed, 6 Jul 2022 10:27:01 +0200

EQS Integrity Line: Multiple Vulnerabilities

Name	Multiple Vulnerabilities in EQS Integrity Line
Systems Affected	EQS Integrity Line through 2022-07-01
Severity	High
Impact (CVSSv2)	High 8.8/10, score: (AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H)
Vendor	EQS Group AG (https://www.eqs.com/)
Advisory	http://www.ussh.it/team/ush/advisory-eqs-integrity-line/eqs_integrity_line.txt
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Date	20220706

I. BACKGROUND

EQS Integrity Line is a proprietary whistleblowing software which enables employees to report misconduct such as corruption, abuses of power and discrimination internally before complaints become public and, in serious cases, result in financial losses as well as reputational damage.

II. DESCRIPTION

Multiple Vulnerabilities exist in EQS Integrity Line software.

The present advisory highlights two distinct vulnerabilities, namely (A) XSS Vulnerability (stored) [CVE-2022-34007] and (B) Use of GET Request Method With Sensitive Query Strings [CWE-598].

III. ANALYSIS

A) XSS Vulnerability (stored) [CVE-2022-34007]

EQS Integrity Line through 2022-07-01 allows a stored XSS via a crafted whistleblower entry.

In order to exploit this vulnerability no account is required on the whistleblowing software.

The vulnerability resides in the whistleblowing questionnaire implementation that enables anonymous, non authenticated, users to inject malicious XSS vectors due to missing or improper input sanitization. Also content security policies (CSP) that could prevent or limit the attack

V. CVE INFORMATION

XSS Vulnerability (stored) [CVE-2022-34007]

Use of GET Request Method With Sensitive Query Strings [CWE-598]

VI. DISCLOSURE TIMELINE

20220617 USH: Bugs discovered

20220617 USH: Contacted Mitre for CVE Assignment

20220621 USH: First vendor contact (Lorenzo Trevisiol, Laura Santeusanio)

20220622 USH: Advisory provided to the vendor (Goran Kozomara)

20220701 Vendor response: XSS confirmed and CSP implemented (Marco Ermini)
The vendor does not acknowledge the second reported vulnerability in the specific context of use but has planned future improvement the application of the application replacing the GET request with a POST request.

20220701 USH: The team confirms prompt and effective remediation of the XSS vulnerability but points out suboptimal CSP implementation. The implementation seems to involve a central proxy or device and to always include a list of 10 vendor clients and other third parties CDN probably used for other reasons different from the audited integrity line app (e.g. bootstrap CDN). The team advises to implement a policy per-site and app to avoid listing sensible resources and limit any possible exposure.

20220701 Advisory release scheduled for 20220706

20220706 Advisory released

VII. REFERENCES

[1] EQS Integrity Line: Multiple Vulnerabilities

http://www.ush.it/team/ush/advisory-eqs-integrity-line/eqs_integrity_line.txt

VIII. CREDIT

Giovanni Pellerano, is credited with the discovery of this vulnerability.

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IX. LEGAL NOTICES

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