



PENTEST CERTIFICATE

for the messageflow™ application

This document confirms the penetration testing of the messageflow™ web application by a team of Niebezpiecznik sp. z o. o. specialists. The tests were conducted in July 2024 on behalf of Vercom S.A.

All vulnerabilities found during the penetration test were described in a confidential report. On the basis of the irregularities described in the report, Vercom S.A. has patched vulnerabilities: #1-#4 and #6. The remaining weakness #5 has "Informational" priority and pose a marginal threat to the security of the service and its users. A retest was then conducted, which confirmed that the reported irregularities had been corrected.

All vulnerabilities related to web applications were in scope of the test (a catalog of which can be found in the OWASP Testing Guide), including those in the so-called OWASP TOP10:

- A1-Broken Access Control
- A2-Cryptographic Failures
- A3-Injection
- A4-Insecure Design
- A5-Security Misconfiguration
- A6-Vulnerable and Outdated Components
- A7-Identification and Authentication Failures
- A8-Software and Data Integrity Failures
- A9-Security Logging and Monitoring Failures
- A10-Server-Side Request Forgery

Testers did not have access to the application's source code during testing - the tests themselves were conducted in a "gray box" approach (with partial knowledge of the application under test).