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## **CODESYS 2.4.7.0 Denial Of Service**

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CODESYS Runtime Toolkit 32-bit versions prior to 2.4.7.56 suffer from a denial of service vulnerability.

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product: CODESYS Runtime Toolkit 32-bit, CODESYS PLCWinNT

vulnerable version: V2. 4.7.56

fixed version: V2. 4.7.56

CVE number: CVE-2021-34593

impact: High
homepage: https://www.codesys.com/
found: 2021-05-05

by: SEC Consult Vulnerability Lab
This vulnerability was discovered during the research
cooperation initiative "OT Cyber Security Lab" between

Verbund AG and SEC Consult Group.

Gerhard Heichenberger (Office Vienna)
Steffen Robertz (Office Vienna) An integrated part of SEC Consult, an Atos company Europe | Asia | North America https://www.sec-consult.com "CODESYS is the leading manufacturer-independent IEC 61131-3 automation software for engineering control systems."  $\,$ Source: https://www.codesys.com/ The vendor provides patches. The vendors of products using the affected software should provide new firmware versions immediately. Users of these products should update their devices to those fixed firmware versions. Vulnerability overview/description: The CODESYS Control runtime system is the core of many PLCs. The runtime is accepting TCP connections on a pre-configured port to connect to the development system. By sending requests that define an invalid packet size, a memory allocation error can be triggered. This leads to a denial of servic condition of the remote connectivity of the CODESYS service, which prevents clients from connecting to the affected FLC. CODESYS released a dedicated security note, which corresponds to this advisory: https://customers.codesys.com/index.php?eID=dumpFile&t=f&f=16877&token=8faab0fcle069f4edfca5d5aba8146139f67a175 A detailed proof of concept will be made public after the affected product vendors had time to provide new firmware versions. Vendor contact timeline: Venuor Contact time.ine:

2021-05-25: Contacting 3rd party vendor of a product using the CODESYS runtime
2021-08-11 Wendor in sisse.

2021-08-10 Wendor in the state that this issue was already fixed in a recent CODESYS
release
2021-08-10 A check on the product's most recent public firmware release
shows that the vulnerability still exists. The vendor is notified
again about this outcome.

2021-09-01: The vendor confirms and ensures the issue is investigated in
collaboration with CODESYS.

2021-10-15: CODESYS informs about the assigned CVE-2021-34593 and the planned
publishing date.

2021-10-28: Coordinated release. Solution:
\_\_\_\_\_\_Immediately update to the patched version of CODESYS. To mitigate this issue, access to the CODESYS service port of the affected devices should be limited as far as possible. In the long run, the updated firmware of the product vendor containing a patched CODESYS service must be installed. https://sec-consult.com/vulnerability-lab/ SEC Consult Vulnerability Lab About SEC Consult Vulnerability Lab
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