



HP FutureSmart EWS Security Log

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Summary

The EWS Security Log provides access to device generated Syslog event information. The EWS security log stores all generated syslog event messages to an internal file that can be exported from the device EWS Security page. The feature provides access to important printer operation and security information provided in syslog messages, without requiring access to a syslog server elsewhere on the network.

Feature details

The EWS Security Log provides the following features and benefits:

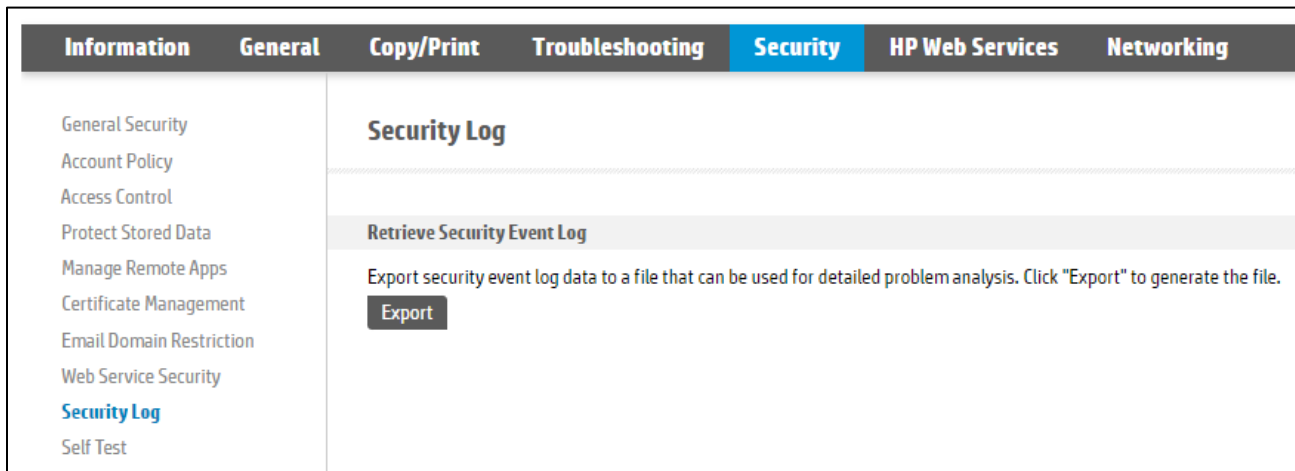
- Stored “on device” and captures 2000 syslog messages on a first-in first-out basis.
- Contains information for each printer event that generates an associated syslog message.
- Events are captured without requiring access to a syslog server or SIEM server.
- Captures advanced security content using the “Enhanced security event logging” syslog option.

To download the security log, follow these steps to export the log from the device EWS:

1. Using an internet browser, browse to the printer IP address.
2. Select the “**Security Tab**”
3. Select “**Security Log**” from the left-navigational menu
4. Select “**Export**” from the Security Log page

Note: The security log file will only be exported if an administrative password has been configured.

The log will be downloaded to the web browsers default download directory.



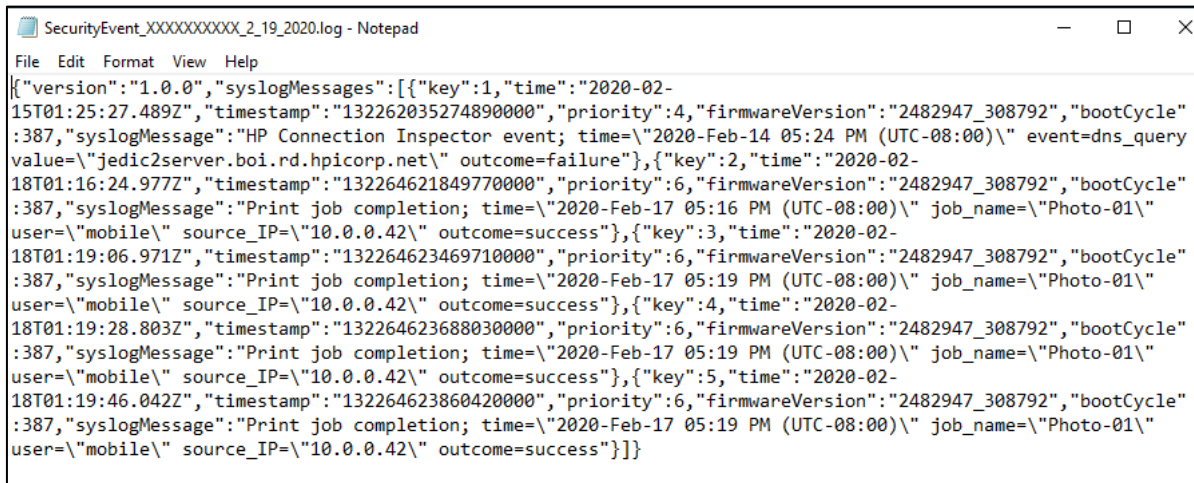
Event Log format

The security log is formatted using JSON (JavaScript Object Notation) format. JSON is a lightweight data exchange format using a readable XML-like format. It can also be used to transfer data between applications.

Each log entry begins with “Key #” and contains the following fields:

- Log time (GMT)
- Timestamp
- Syslog priority
- Firmware version
- Bootcycle
- Syslog message

Example security log file



```
SecurityEvent_XXXXXXXXXX_2_19_2020.log - Notepad
File Edit Format View Help
[{"version": "1.0.0", "syslogMessages": [{"key": 1, "time": "2020-02-15T01:25:27.489Z", "timestamp": "132262035274890000", "priority": 4, "firmwareVersion": "2482947_308792", "bootCycle": 387, "syslogMessage": "HP Connection Inspector event; time=\\"2020-Feb-14 05:24 PM (UTC-08:00)\\" event=dns_query value=\\"jedic2server.boi.rd.hplicorp.net\\" outcome=failure"}, {"key": 2, "time": "2020-02-18T01:16:24.977Z", "timestamp": "132264621849770000", "priority": 6, "firmwareVersion": "2482947_308792", "bootCycle": 387, "syslogMessage": "Print job completion; time=\\"2020-Feb-17 05:16 PM (UTC-08:00)\\" job_name=\\"Photo-01\\" user=\\"mobile\\" source_IP=\\"10.0.0.42\\" outcome=success"}, {"key": 3, "time": "2020-02-18T01:19:06.971Z", "timestamp": "132264623469710000", "priority": 6, "firmwareVersion": "2482947_308792", "bootCycle": 387, "syslogMessage": "Print job completion; time=\\"2020-Feb-17 05:19 PM (UTC-08:00)\\" job_name=\\"Photo-01\\" user=\\"mobile\\" source_IP=\\"10.0.0.42\\" outcome=success"}, {"key": 4, "time": "2020-02-18T01:19:28.803Z", "timestamp": "132264623688030000", "priority": 6, "firmwareVersion": "2482947_308792", "bootCycle": 387, "syslogMessage": "Print job completion; time=\\"2020-Feb-17 05:19 PM (UTC-08:00)\\" job_name=\\"Photo-01\\" user=\\"mobile\\" source_IP=\\"10.0.0.42\\" outcome=success"}, {"key": 5, "time": "2020-02-18T01:19:46.042Z", "timestamp": "132264623860420000", "priority": 6, "firmwareVersion": "2482947_308792", "bootCycle": 387, "syslogMessage": "Print job completion; time=\\"2020-Feb-17 05:19 PM (UTC-08:00)\\" job_name=\\"Photo-01\\" user=\\"mobile\\" source_IP=\\"10.0.0.42\\" outcome=success"}]}
```

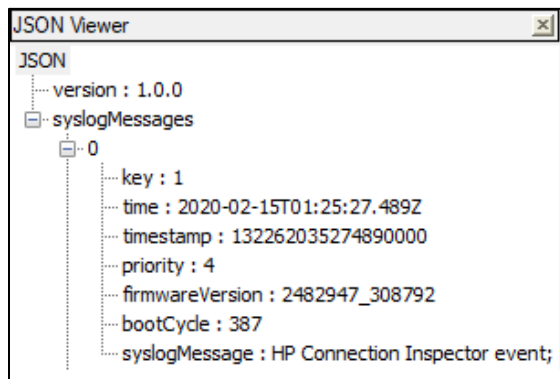
Log message Format

```
{"key":1, "time":"2020-15T01:25:27.489Z", "timestamp":"132262035274890000", "priority":4, "firmwareVersion":"2482947_308792", "bootCycle":387, "syslogMessage":"HP Connection Inspector event; time=\\"2020-Feb-14 05:24 PM (UTC-08:00)\\" event=dns_query value=\\"jedic2server.boi.rd.hplicorp.net\\" outcome=failure"}
```

Log time (zulu)	"time":"2020-02-15T01:25:27.489Z"
Timestamp	"timestamp":"132262035274890000"
Syslog priority	"priority":4
Firmware version	"firmwareVersion":"2482947_308792"
Bootcycle	"bootCycle":387
Syslog message	"syslogMessage":"HP Connection Inspector event; time=\\"2020-Feb-14 05:24 PM (UTC 08:00)\\" event=dns_query value=\\"jedic2server.boi.rd.hplicorp.net\\" outcome=failure"

JSON Editor Plug-in

Industry standard text editors provide plug-ins for JSON formatted files. Example: Notepad++ has a downloadable JSON plug-in.



```
JSON Viewer
JSON
├── version : 1.0.0
├── syslogMessages
│   └── 0
│       ├── key : 1
│       ├── time : 2020-02-15T01:25:27.489Z
│       ├── timestamp : 132262035274890000
│       ├── priority : 4
│       ├── firmwareVersion : 2482947_308792
│       ├── bootCycle : 387
│       └── syslogMessage : HP Connection Inspector event;
```

Supported FutureSmart versions

The EWS Security Log is available in **FutureSmart bundle version 4.11** and later.

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