

ZT400 Syslog Alerts

The ZT400 Series printer will be capable of supporting Syslog alerts which tend to be highly used in a Unix or Linux environment, There are approximately 130 printer alerts via this method.

Background Info

You can setup the printer to send local or remote syslog messages. For a general understanding of syslog please reference Wikipedia:

<http://en.wikipedia.org/wiki/Syslog>

To view the current printer syslog settings take a look at the device.syslog SGD branch:

```
! U1 getvar "device.syslog"
```

To enable syslog you have to first turn it on:

```
! U1 setvar "device.syslog.enable" "on"
```

You can select which severity level (and above) to view messages on. Here are the syslog severities in priority order:

EMERG

ALERT

CRIT

ERR

WARNING

NOTICE

INFO

DEBUG

Local

To configure local syslog messages select your severity and set the configuration setting:

```
! U1 setvar "device.syslog.configuration" "INFO,LOCAL"
```

Restart the printer, and then check the local entries:

```
! U1 getvar "device.syslog.entries"
```

Remote

To configure remote syslog messages you will first need a server application to accept them.

You can load a syslog server (viewer) on your PC by using one of the following products:

<http://www.snmpsoft.com/syslogwatcher/syslog-server.html>

<http://sourceforge.net/projects/syslog-server/>

<http://www.solarwinds.com/products/freetools/free-kiwi-syslog-server.aspx>

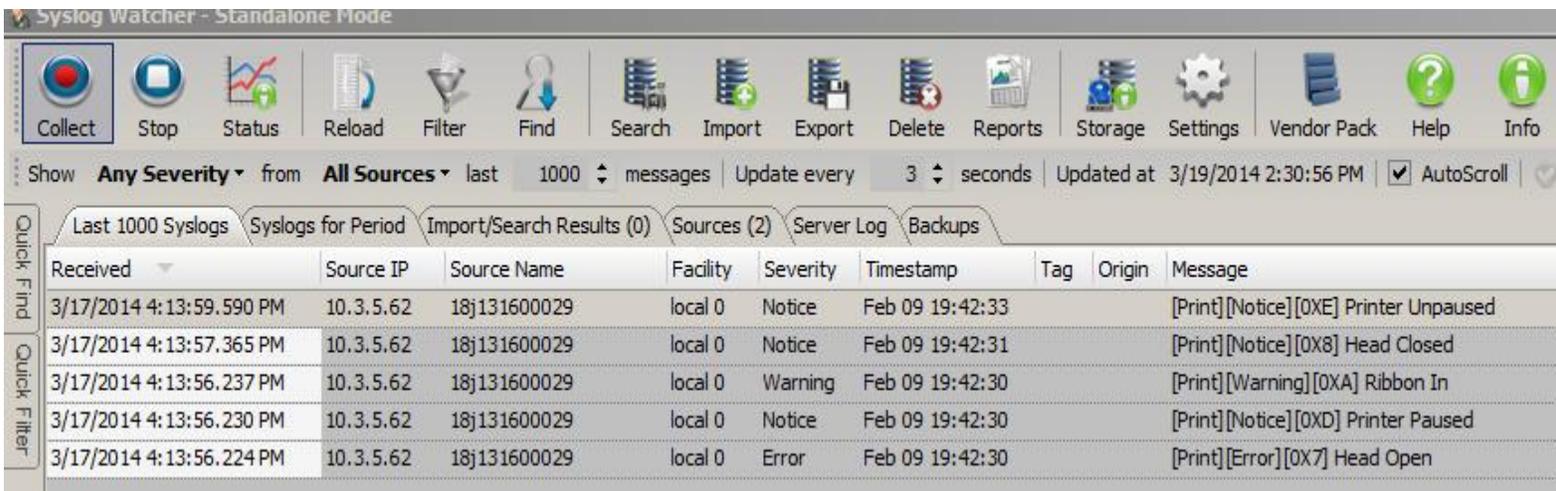
Most of these applications have the limitation of allowing up to 5 different sources (printer IP addresses in our case) while commercial versions allow more sources.

Once one of the programs is installed and running you will need to get your PC IP address, this is the server IP address the printer will send the syslog event to.

To configure remote syslog messages select your severity and server IP address, then set the configuration setting (where 1.2.3.4 is your server):

```
! U1 setvar "device.syslog.configuration" "INFO,1.2.3.4"
```

Restart the printer. After it gets an IP address, open and close the print head to verify that the syslog message gets sent to your remote server. It should eventually look like this:



The screenshot shows the Syslog Watcher - Standalone Mode interface. The top toolbar includes buttons for Collect, Stop, Status, Reload, Filter, Find, Search, Import, Export, Delete, Reports, Storage, Settings, Vendor Pack, Help, and Info. Below the toolbar, there are controls for showing messages (Any Severity, All Sources, last 1000 messages) and update frequency (3 seconds). The main display area shows a table of received syslog messages.

Received	Source IP	Source Name	Facility	Severity	Timestamp	Tag	Origin	Message
3/17/2014 4:13:59.590 PM	10.3.5.62	18j131600029	local 0	Notice	Feb 09 19:42:33			[Print][Notice][0XE] Printer Unpaused
3/17/2014 4:13:57.365 PM	10.3.5.62	18j131600029	local 0	Notice	Feb 09 19:42:31			[Print][Notice][0X8] Head Closed
3/17/2014 4:13:56.237 PM	10.3.5.62	18j131600029	local 0	Warning	Feb 09 19:42:30			[Print][Warning][0XA] Ribbon In
3/17/2014 4:13:56.230 PM	10.3.5.62	18j131600029	local 0	Notice	Feb 09 19:42:30			[Print][Notice][0XD] Printer Paused
3/17/2014 4:13:56.224 PM	10.3.5.62	18j131600029	local 0	Error	Feb 09 19:42:30			[Print][Error][0X7] Head Open

Miscellaneous

You can also save the local syslog messages to a local file E:SYSLOG.TXT by setting:

```
! U1 setvar "device.syslog.save_local_file" "yes"
```

You can also combine multiple syslog configurations by delimiting entries with a semicolon:

```
! U1 setvar "device.syslog.configuration" "INFO,1.2.3.4;INFO,LOCAL"
```

To clear the local entries just issue:

```
! U1 setvar "device.syslog.clear_log" "1"
```

The format of each syslog message includes the printer feature, the severity level, the unique message code, and the unique English message. This allows for more advanced systems administrators to filter particular messages of interest. Syslog currently supports unique messages for most printer alerts, WebLink, and some USB Host messages. Additional messages will be added to syslog as time progresses.