

Working with Syslogs from External Servers

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Overview

SBC Edge (1000/2000/SWe Lite) or VX can send logging messages to external syslog systems. Often, those systems prepend information to the log entries. Before the LX can parse the file, the file must be edited such that it is the correct format. In other words, the log file format must conform to that which was sent from the SBC Edge or VX.

Converting an External Log to an LX Readable Format

The LX application includes External Syslog Formatting functionality that allows it to remove any prepended information and also convert hexadecimal line breaks to Windows compatible line feeds.

The following is an example of a log file from an external log server with information prepended to the original SBC Edge syslog entry.

```
2011-10-11 15:00:02 Local0.Debug lyncux2k01 [2011-10-11 14:59:11,049] com.net.ux.sip DEBUG
(OptionsSession.cpp:116) - ProcessTimerExpiration: 2a1190 OptionsSession::ProcessTimerExpiration()
called
2011-10-11 15:00:02 Local0.Debug lyncux2k01 [2011-10-11 14:59:11,049] com.net.ux.sip DEBUG
(Session.cpp:737) - SelectLocalIP: Using IP [0.0.0.0]:5067 Media IP=[0.0.0.0]:0 0 - 1
2011-10-11 15:00:02 Local0.Debug lyncux2k01 [2011-10-11 14:59:11,049] com.net.ux.sip DEBUG
(OptionsSession.cpp:310) - startTransaction: Options via from message is: 0.0.0.0:5067
2011-10-11 15:00:02 Local0.Debug lyncux2k01 [2011-10-11 14:59:11,049] com.net.ux.sip DEBUG
(Transaction.cpp:556) - createClientTransaction: Transaction destination is svrlyncfe01.lacertetech.com
[192.168.5.171]:5067
2011-10-11 15:00:02 Local0.Debug lyncux2k01 [2011-10-11 14:59:11,050] com.net.ux.sip DEBUG
(Transaction.cpp:89) - Transaction: Transaction 0x2fb7a8 ctor called req=OPTIONS [192.168.5.171]:5067
```

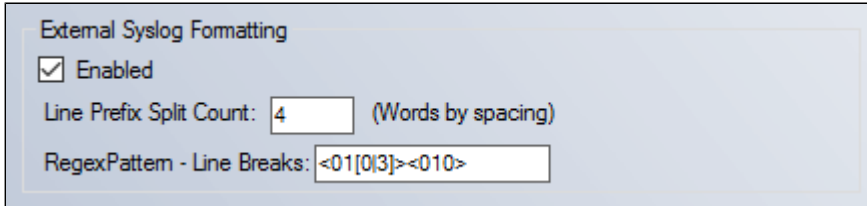
The following is an example original message sent by the SBC Edge:

```
[2011-10-11 14:59:11,049] com.net.ux.sip DEBUG (OptionsSession.cpp:116) - ProcessTimerExpiration:
2a1190 OptionsSession::ProcessTimerExpiration() called
[2011-10-11 14:59:11,049] com.net.ux.sip DEBUG (Session.cpp:737) - SelectLocalIP: Using IP
[0.0.0.0]:5067 Media IP=[0.0.0.0]:0 0 - 1
[2011-10-11 14:59:11,049] com.net.ux.sip DEBUG (OptionsSession.cpp:310) - startTransaction: Options via
from message is: 0.0.0.0:5067
[2011-10-11 14:59:11,049] com.net.ux.sip DEBUG (Transaction.cpp:556) - createClientTransaction:
Transaction destination is svrlyncfe01.lacertetech.com [192.168.5.171]:5067
[2011-10-11 14:59:11,050] com.net.ux.sip DEBUG (Transaction.cpp:89) - Transaction: Transaction 0x2fb7a8
ctor called req=OPTIONS [192.168.5.171]:5067
```

External Syslog Formatting

Formatting information used to reformat external syslog into an LX readable form is provided in the External Syslog Formatting section of the LX Settings dialog.

Figure 1: External Syslog Formatting



External Syslog Formatting

Enabled

Line Prefix Split Count: (Words by spacing)

RegexPattern - Line Breaks:

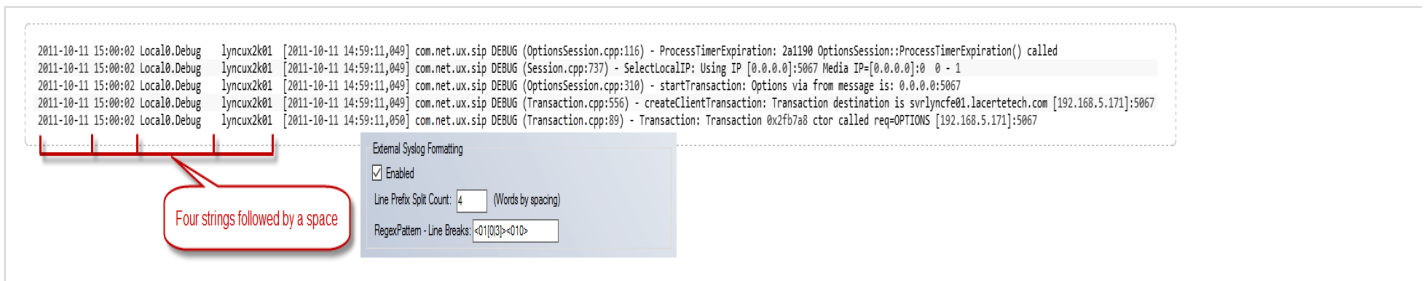
The External Syslog Formatting functionality allows you to do two things:

- Remove groups of prepended text strings
- Specify the line breaks added to the end of each entry when the syslog file is saved by the LX application.

Trimming Prepended Text

The **Line Prefix Split Count** field value specifies the number of strings terminated by a space character to remove from the beginning of each line.

In the example below, the **Line Prefix Split Count** is specified as 4 (default). The first four text strings are removed from each line in the log file.



```
2011-10-11 15:00:02 Local0.Debug lyncux2k81 [2011-10-11 14:59:11,049] com.net.u.x.sip DEBUG (OptionsSession.cpp:116) - ProcessTimerExpiration: 2a1190 OptionsSession::ProcessTimerExpiration() called
2011-10-11 15:00:02 Local0.Debug lyncux2k81 [2011-10-11 14:59:11,049] com.net.u.x.sip DEBUG (Session.cpp:737) - SelectLocalIP: Using IP [0.0.0.0]:5067 Media IP=[0.0.0.0]:0 0 - 1
2011-10-11 15:00:02 Local0.Debug lyncux2k81 [2011-10-11 14:59:11,049] com.net.u.x.sip DEBUG (OptionsSession.cpp:310) - startTransaction: Options via from message is: 0.0.0.0:5067
2011-10-11 15:00:02 Local0.Debug lyncux2k81 [2011-10-11 14:59:11,049] com.net.u.x.sip DEBUG (Transaction.cpp:556) - createClientTransaction: Transaction destination is svrlyncfe01.lacertotech.com [192.168.5.171]:5067
2011-10-11 15:00:02 Local0.Debug lyncux2k81 [2011-10-11 14:59:11,050] com.net.u.x.sip DEBUG (Transaction.cpp:89) - Transaction: Transaction 0x2fb7a8 ctor called req=OPTIONS [192.168.5.171]:5067
```

External Syslog Formatting

Enabled

Line Prefix Split Count: (Words by spacing)

RegexPattern - Line Breaks:

Setting the Line Break Character

The **RegexPattern - Line Breaks** field accepts a Regular Expression that specifies, in hexadecimal, the character to add at the end of each line in the log file. The default is the Windows line feed character.

Opening an External Syslog File

Opening an external syslog file is a straightforward process. You can either drag-and-drop it on the LX application window or use the Open command (Ctrl+O) in the **File** menu.

When an external syslog file is opened LX converts the file to an SBC system log file format using the information provided in the **Settings** dialog. After the file is converted, the LX saves it to the same location as the source file using the file name **LX_Converted_[date/time stamp].log**.

