
Syslog Client for Crestron Systems

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Summary

This datasheet relates to Ultamation's Syslog Client module for Crestron control systems.

The purpose of this module is to provide remote logging functionality by allowing a Crestron system to function as a Syslog client, reporting to a Syslog server such a BSD-compatible (RFC 3164) syslogd daemon.

Please note that this does *not* allow a Crestron system to function as a Syslog server, which collects data from other Syslog clients, but rather a client, pushing log events to an external server for monitoring and processing.

This module implements a UDP Syslog connection. Please contact Ultamation Limited if you require a TCP implementation.

Programming Notes

This module uses direct sockets in SIMPL+ to handle connection to the Syslog server, avoiding the need for a TCP/IP Client in your hardware definition.

Module Parameters

Property	Purpose
Tag	Enter the Message tag text you wish to use when sending messages. This must only contain alphanumeric characters and must be less than 32 characters long.
FacilityID	Defines the syslogd facility ID - you should normally leave this as the default "User" or pick one of the Local facility IDs. Refer to the syslogd specification RFC for a description of these IDs.
Syslog_Host	Enter the hostname or IP address of your syslog daemon host.
Syslog_Port	If your syslog daemon is not running on the default port of 514, change this to the appropriate value for your installation.

Module Signals

Signal	Purpose
Enable	Take high to establish the connection with the syslogd server. Low will disconnect. You can safely put a 1 on this signal.
Severity	The severity of the next message to send. This can be initialised on or prior to the logic wave which sends the message. Alternatively, this signal can be commented out and use the special format for LogMsg\$ (see below). Valid values are also discussed below.
Host\$	The hostname or address of the sending system.
Tag\$	The "application" tag.
LogMsg\$	The log message to send.

LogMsg\$ Special Format

To simplify implementation, you can specify the severity as part of the log message. This means you simply supply a single serial string to the module and the severity is taken from the header.

The string must be formatted as follows:

`<Severity>\x00<Message>`

i.e. Use a null byte as a delimiter between the severity and message.

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The severity should be expressed as the ASCII representation of the severity value. E.g. the message "Hello World!" with severity "Informational" (6) would be expressed as:

```
6\x00Hello World!
```

Valid Message Severity Values

Value	Purpose
0	Emergency (System unusable).
1	Alert (Immediate action required).
2	Critical (Critical conditions).
3	Error
4	Warning
5	Notice (Normal but significant).
6	Informational
7	Debug

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Licence

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Future revisions of the software, whether bug fixes or additional features, will be provided free of charge to existing customers.

This module is password protected and any attempt to subvert or defeat this protection is strictly prohibited.