

**NAME**

**xo\_syslog**, **xo\_vsyslog**, **xo\_open\_log**, **xo\_close\_log**, **xo\_set\_logmask** - create SYSLOG (RFC5424) log records using libxo formatting

**LIBRARY**

Text, XML, JSON, and HTML Output Emission Library (libxo, -lxo)

**SYNOPSIS**

```
#include <libxo/xo.h>
```

*void*

```
xo_syslog(int pri, const char *name, const char *fmt, ...);
```

*void*

```
xo_vsyslog(int pri, const char *name, const char *fmt, va_list vap);
```

*void*

```
xo_close_log(void);
```

*void*

```
xo_open_log(const char *ident, int logstat, int logfac);
```

*int*

```
xo_set_logmask(int pmask);
```

**DESCRIPTION**

The **xo\_syslog**() function creates log entries following the standard defined in RFC5424. These messages are sent to the log syslogd(8) daemon, where they can be filtered, forwarded, and archived. **libxo** format strings are used to create both the message text and the **SD-PARAMS** content, containing name/value pairs that can be parsed by suitable automation software.

Refer to **xo\_format**(5) for basic information about formatting strings. **xo\_syslog** encodes all value fields at SD-PARAMS within the syslog message. An exception is made for fields with the "{d:}" modifier; such fields appear in the message text only, with fields with the "{e:}" modifier appear as SD-PARAMS, but not in the message text.

**xo\_vsyslog**() accepts a *va\_list* for additional flexibility.

**xo\_open\_log**(), **xo\_close\_log**(), and **xo\_set\_logmask**() are all analogous to their **libs** counterparts, **openlog**(3), **closelog**(3), and **setlogmask**(3). The extra underscores in the names are unfortunate, but

keep consistency in **libxo** function names.

### EXAMPLES

```
xo_syslog(LOG_LOCAL4 | LOG_NOTICE, "ID47",
    "{e:iut/%u}An {:event-source} {:event-id/%u} log entry",
    iut, source, id);
```

### SEE ALSO

xo\_syslog(3), xo\_set\_syslog\_enterprise\_id(3), xo\_format(5), libxo(3)

### HISTORY

The **libxo** library first appeared in FreeBSD 11.0.

### AUTHORS

**libxo** was written by Phil Shafer <[phil@freebsd.org](mailto:phil@freebsd.org)>.