

**NAME**

**cap\_syslog**, **cap\_vsyslog**, **cap\_openlog**, **cap\_closelog**, **cap\_setlogmask** - library for syslog in capability mode

**LIBRARY**

library "libcap\_syslog"

**SYNOPSIS**

```
#include <libcasper.h>
```

```
#include <casper/cap_syslog.h>
```

*void*

```
cap_syslog(cap_channel_t *chan, int pri, const char *fmt, ...);
```

*void*

```
cap_vsyslog(cap_channel_t *chan, int priority, const char *fmt, va_list ap);
```

*void*

```
cap_openlog(cap_channel_t *chan, const char *ident, int logopt, int facility);
```

*void*

```
cap_closelog(cap_channel_t *chan);
```

*int*

```
cap_setlogmask(cap_channel_t *chan, int maskpri);
```

**DESCRIPTION**

The functions **cap\_syslog()** **cap\_vsyslog()** **cap\_openlog()** **cap\_closelog()** **cap\_setlogmask()** are respectively equivalent to **syslog(3)**, **vsyslog(3)**, **openlog(3)**, **closelog(3)**, **setlogmask(3)** except that the connection to the **system.syslog** service needs to be provided.

**EXAMPLES**

The following example first opens a capability to casper and then uses this capability to create the **system.syslog** casper service to log messages.

```
cap_channel_t *capcas, *capsyslog;
```

```
/* Open capability to Casper. */
```

```
capcas = cap_init();
```

```
if (capcas == NULL)
```

```
    err(1, "Unable to contact Casper");

/* Enter capability mode sandbox. */
if (cap_enter() < 0 && errno != ENOSYS)
    err(1, "Unable to enter capability mode");

/* Use Casper capability to create capability to the system.syslog service. */
capsyslog = cap_service_open(capcas, "system.syslog");
if (capsyslog == NULL)
    err(1, "Unable to open system.syslog service");

/* Close Casper capability, we don't need it anymore. */
cap_close(capcas);

/* Let's log something. */
cap_syslog(capsyslog, LOG_NOTICE, "System logs from capability mode.");
```

**SEE ALSO**

cap\_enter(2), closelog(3), err(3), openlog(3), setlogmask(3), syslog(3), vsyslog(3), capsicum(4), nv(9)

**HISTORY**

The **cap\_syslog** service first appeared in FreeBSD 10.3.

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