

# **xlog Module**

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# Chapter 1. User's Guide

## 1.1. Overview

This module provides the possibility to print user formatted log or debug messages from SER scripts, similar to printf function but now a specifier is replaced with a part of the SIP request. Section 1.2 shows what can be printed out.

## 1.2. Implemented Specifiers

- %% : '%'
- %Ts : unix time stamp
- %Tf : string formatted time
- %ci : call-id
- %cs : cseq
- %ct : contact header
- %fu : 'From' uri
- %ft : 'From' tag
- %rm : request's method
- %ru : request's r-uri
- %rr : reply's reason
- %rs : reply's status
- %tu : 'To' uri
- %tt : 'To' tag
- %mi : SIP message id
- %pp : process id (pid)
- %is : IP source address

## 1.3. Dependencies

### 1.3.1. SER Modules

The following modules must be loaded before this module:

- *No dependencies on other SER modules.*

## 1.3.2. External Libraries or Applications

The following libraries or applications must be installed before running SER with this module loaded:

- *None.*

## 1.4. Exported Parameters

### 1.4.1. `buf_size` (integer)

Maximum size of the log message.

*Default value is 4096.*

**Example 1-1. Set `buf_size` parameter**

```
...  
modparam("xlog", "buf_size", 8192)  
...
```

## 1.5. Exported Functions

### 1.5.1. `xlog(level, format)`

Print a formatted message using LOG function.

Meaning of the parameters is as follows:

- *level* - The level that will be used in LOG function. It can be:
  - L\_ALERT
  - L\_CRIT
  - L\_ERR
  - L\_WARN
  - L\_NOTICE
  - L\_INFO
  - L\_DBG

What really matters is the third letter of the value.

- *format* - The formatted string to be printed.

**Example 1-2. xlog usage**

```
...  
xlog("L_ERR", "time [%Tf] method <%rm> r-uri <%ru>\n");  
...
```

## 1.5.2. xdbg( format )

Print a formatted message using DBG function.

Meaning of the parameters is as follows:

- *format* - The formatted string to be printed.

**Example 1-3. xdbg usage**

```
...  
xdbg("time [%Tf] method <%rm> r-uri <%ru>\n");  
...
```

## Chapter 2. Developer's Guide

The module does not provide any sort of API to use in other SER modules.



# Chapter 3. Frequently Asked Questions

## 1. Where can I find more about SER?

Take a look at <http://iptel.org/ser>.

## 2. Where can I post a question about this module?

First at all check if your question was already answered on one of our mailing lists:

- <http://mail.iptel.org/mailman/listinfo/serusers>
- <http://mail.iptel.org/mailman/listinfo/serdev>

E-mails regarding any stable version should be sent to [<serusers@iptel.org>](mailto:serusers@iptel.org) and e-mail regarding development versions or CVS snapshots should be sent to [<serdev@iptel.org>](mailto:serdev@iptel.org).

If you want to keep the mail private, send it to [<serhelp@iptel.org>](mailto:serhelp@iptel.org).

## 3. How can I report a bug?

Please follow the guidelines provided at: <http://iptel.org/ser/bugs>