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 formated 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> and e-mail regarding development versions or CVS snapshots should be send to <serdev@iptel.org>.

If you want to keep the mail private, send it to <serhelp@iptel.org>.

3. How can I report a bug?

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