rr Name

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Chapter 1. User's Guide

1.1. Overview

The module contains record routing logic

1.2. Dependencies

1.2.1. SER Modules

The following modules must be loaded before this module:

- *No dependencies on other SER modules.*

1.2.2. External Libraries or Applications

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

- *None.*

1.3. Exported Parameters

1.3.1. `enable_full_lr` (integer)

If set to 1 then ;lr=on instead of just ;lr will be used. This is to overcome problems with broken UAs which strip ;lr parameter when generating Route header fields from Record-Route (;lr=on seems to help).

Default value is 0 (no).

Example 1-1. Set `enable_full_lr` parameter

```
...
modparam("rr", "enable_full_lr", 1)
...
```

1.3.2. `append_fromtag` (integer)

if turned on, request's from-tag is appended to record-route; that's useful for understanding whether subsequent requests (such as BYE) come from caller (route's from-tag==BYE's from-tag) or callee (route's from-tag==BYE's to-tag)

Default value is 1 (yes).

Example 1-2. Set `append_fromtag` parameter

```
...
modparam("rr", "append_fromtag", 0)
...
```

1.3.3. `enable_double_rr` (integer)

There are some situations when the server needs to insert two Record-Route header fields instead of one. For example when using two disconnected networks or doing cross-protocol forwarding from UDP->TCP. This parameter enables inserting of 2 Record-Routes. The server will later remove both of them.

Default value is 1 (yes).

Example 1-3. Set `enable_double_rr` parameter

```
...
modparam("rr", "enable_double_rr", 0)
...
```

1.4. Exported Functions

1.4.1. `loose_route()`

The function performs loose routing as defined in RFC3261 (http://www.ietf.org/rfc/rfc3261.txt). See the RFC3261 (http://www.ietf.org/rfc/rfc3261.txt) for more details.

Example 1-4. `loose_route` usage

```
...
loose_route();
...
```

1.4.2. `strict_route()` -- deprecated

If there are any Route HFs in the message, the function takes the first one, rewrites Request-URI with it's value and removes the first URI from Route HFs.

Example 1-5. `strict_route` usage

```
...
strict_route();
...
```

1.4.3. `record_route()`

The function adds a new Record-Route header field. The header field will be inserted in the message before any other Record-Route header fields.

Example 1-6. `record_route` usage

```
...
record_route();
...
```

1.4.4. `record_route_preset(string)`

This function will put the string into Record-Route, don't use unless you know what you are doing.

Meaning of the parameters is as follows:

- *string* - String to be inserted into the header field.

Example 1-7. `record_route_preset` usage

```
...
record_route_preset("1.2.3.4:5090");
...
```

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