

# How to setup SER as Load Balancer for OpenSBC

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SER has a stateless load balancer called dispatcher. A more detailed discussion about this module is available here:

<http://www.kamailio.net/docs/modules/1.5.x/dispatcher.html>

Here are relevant entries on your kamailio.cfg or openser.cfg in order to use SER as load balancer for OpenSBC:

a. include dispatcher module

```
loadmodule "dispatcher.so"
```

b. declare dispatcher parameters

```
--dispatcher params --
```

```
modparam("dispatcher", "list_file", "/usr/local/kamailio/etc/kamailio/dispatcher.list")
```

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

c. sample content of main route logic:

```
route {  
  
if (!mf_process_maxfwd_header("10")) {  
sl_send_reply("483", "Too Many Hops");  
exit;  
};  
  
if (msg:len > max_len) {  
sl_send_reply("513", "Message Overflow");  
exit;  
};  
  
if (loose_route()) {  
append_hf("P-hint: rr-enforced\r\n");  
record_route();  
route(2);  
exit;  
};  
  
if (method=="INVITE") {  
route(1);  
xlog("Forward to &lt;$ru&gt; with CID $ci\n");  
}  
};
```

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```
if (method=="REGISTER") {
append_to_reply("Contact: $ct\r\n");
sl_send_reply("200", "OK");
exit;
};

if ( (method=="CANCEL") || (method=="ACK") ) {
record_route();
route(2);
xlog("Forward to &lt;$ru&gt; with CID $ci\n");
exit;
};
#if stateless LB
route[1]
{
ds_select_domain("2", "4");
record_route();
t_relay();
}
route[2]
{
if (!t_relay()) {
sl_reply_error();
};
}
d. sample content of dispatcher.list with IPs of OSBC
2 sip:10.10.10.1:5060
2 sip:10.10.10.2:5060
2 sip:10.10.10.3:5060
2 sip:10.10.10.4:5060
```

where '2' denotes the ID of the gateways as declared in ' ds\_select\_domain("2", "4");' while 4 is the algorithm for round robin