

SIP Message Routing / SIP Relay

SIP Message Routing allows you to route unsolicited SIP message to its destination. SIP Message Routing utilizes its own dial plan like xml control, except that it is not for call routing but SIP Message routing. sip_relay is an application to be used in the xml routing plan specifically for message routing purpose. SIP Message Routing supports SIP Notify, Message and TR87 routing.

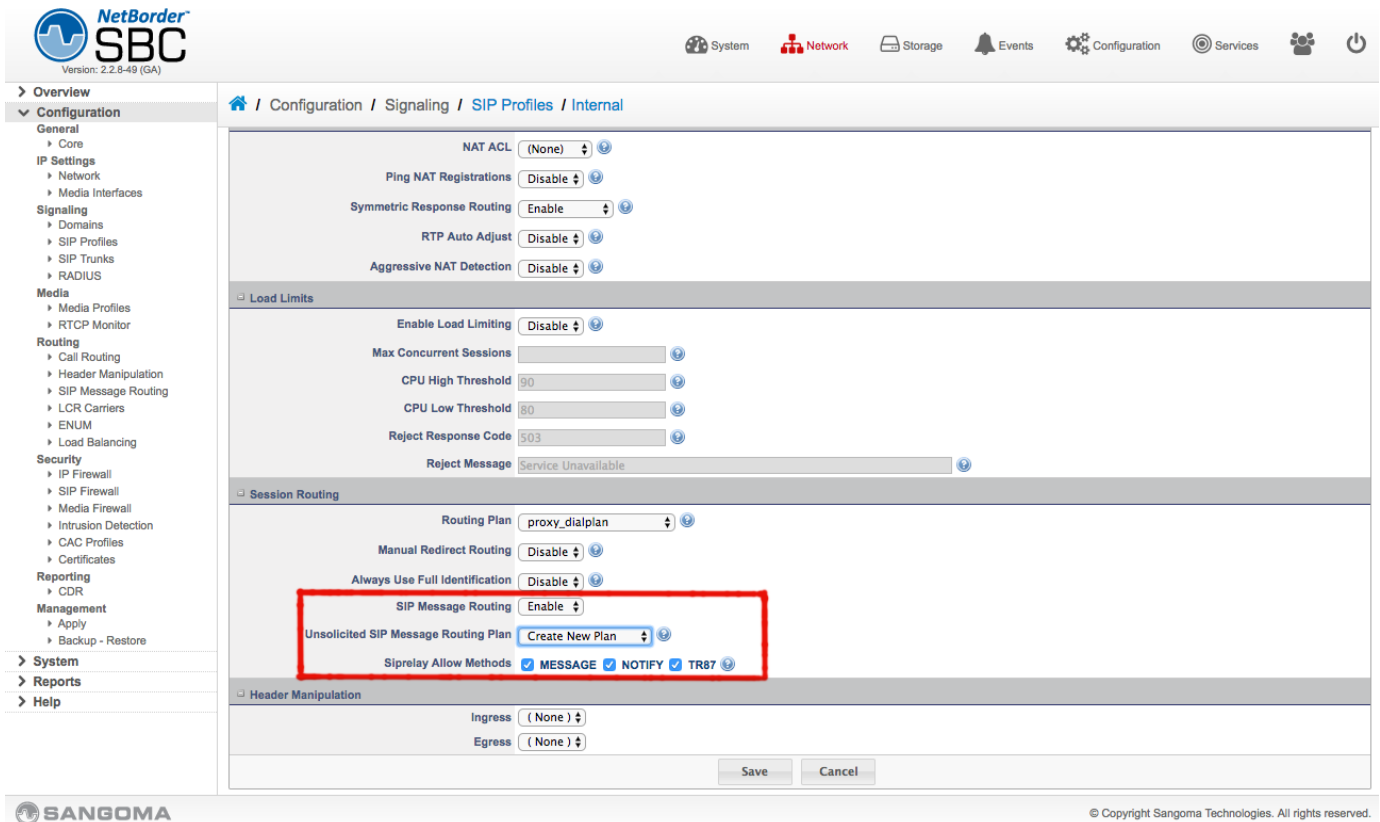
Creating SIP Message Routing

Setting up SIP Message Routing is a two steps process. First, we need to enable the feature from the SIP Profile. Secondly, we must create a SIP Message Routing plan to route the message.

In the following example, you will find SIP Message Routing options in a SIP Profile. To setup a SIP Message Routing:

1. Toggle "SIP Message Routing" to "Enable"
2. Under "Unsolicited SIP Message Routing Plan", select "Create New Plan", alternatively, you can select an existing routing plan from the drop down list.
3. Check the SIP Message types to apply the routing to.

If you have multiple SIP Profiles, be sure to repeat the process on applicable SIP Profiles.



The screenshot displays the NetBorder SBC configuration interface. The top navigation bar includes icons for System, Network, Storage, Events, Configuration, Services, and a power button. The left sidebar shows a tree view of configuration categories: Overview, Configuration (General, IP Settings, Signaling, Media, Routing, Security, Reporting, Management), System, Reports, and Help. The main content area is titled 'Configuration / Signaling / SIP Profiles / Internal'. It contains several sections of settings:

- NAT ACL:** (None)
- Ping NAT Registrations:** Disable
- Symmetric Response Routing:** Enable
- RTP Auto Adjust:** Disable
- Aggressive NAT Detection:** Disable

The **Load Limits** section includes:

- Enable Load Limiting:** Disable
- Max Concurrent Sessions:** [input field]
- CPU High Threshold:** 90
- CPU Low Threshold:** 80
- Reject Response Code:** 503
- Reject Message:** Service Unavailable

The **Session Routing** section includes:

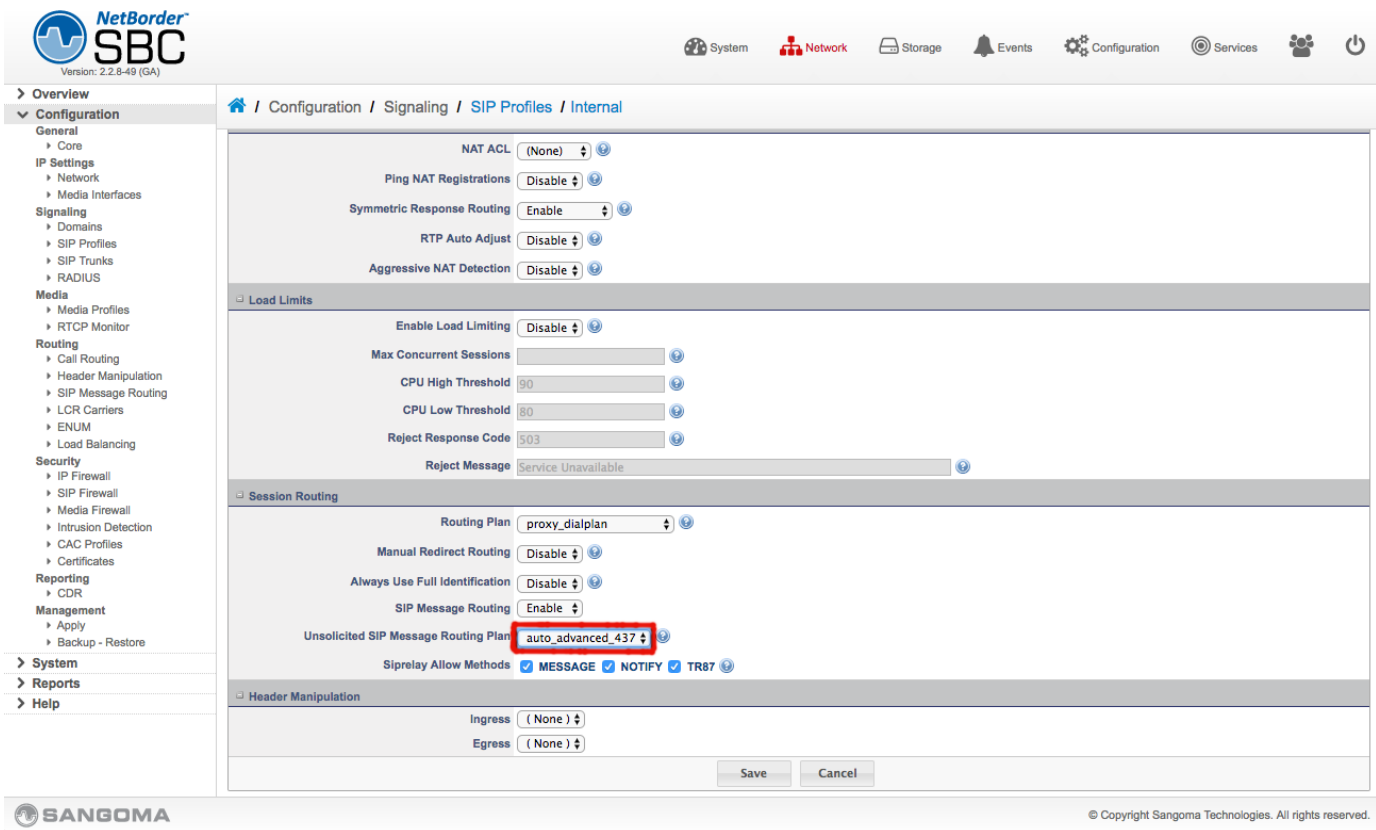
- Routing Plan:** proxy_dialplan
- Manual Redirect Routing:** Disable
- Always Use Full Identification:** Disable
- SIP Message Routing:** Enable
- Unsolicited SIP Message Routing Plan:** Create New Plan (highlighted with a red box)
- Siprelay Allow Methods:** MESSAGE, NOTIFY, TR87 (all checked)

The **Header Manipulation** section includes:

- Ingress:** (None)
- Egress:** (None)

At the bottom of the configuration area are 'Save' and 'Cancel' buttons. The footer of the page shows the SANGOMA logo and the copyright notice: '© Copyright Sangoma Technologies. All rights reserved.'

If you choose to create a new routing plan, once the changes is applied, you will be able to find the name of the routing plan in the SIP Profile settings:



NetBorder SBC Version: 2.2.8-49 (GA)

System Network Storage Events Configuration Services

Configuration / Signaling / SIP Profiles / Internal

NAT ACL (None) Ping NAT Registrations Disable Symmetric Response Routing Enable RTP Auto Adjust Disable Aggressive NAT Detection Disable

Load Limits

Enable Load Limiting Disable Max Concurrent Sessions CPU High Threshold 90 CPU Low Threshold 80 Reject Response Code 503 Reject Message Service Unavailable

Session Routing

Routing Plan proxy_dialplan Manual Redirect Routing Disable Always Use Full Identification Disable SIP Message Routing Enable Unsolicited SIP Message Routing Plan auto_advanced_437 Siprelay Allow Methods MESSAGE NOTIFY TR87

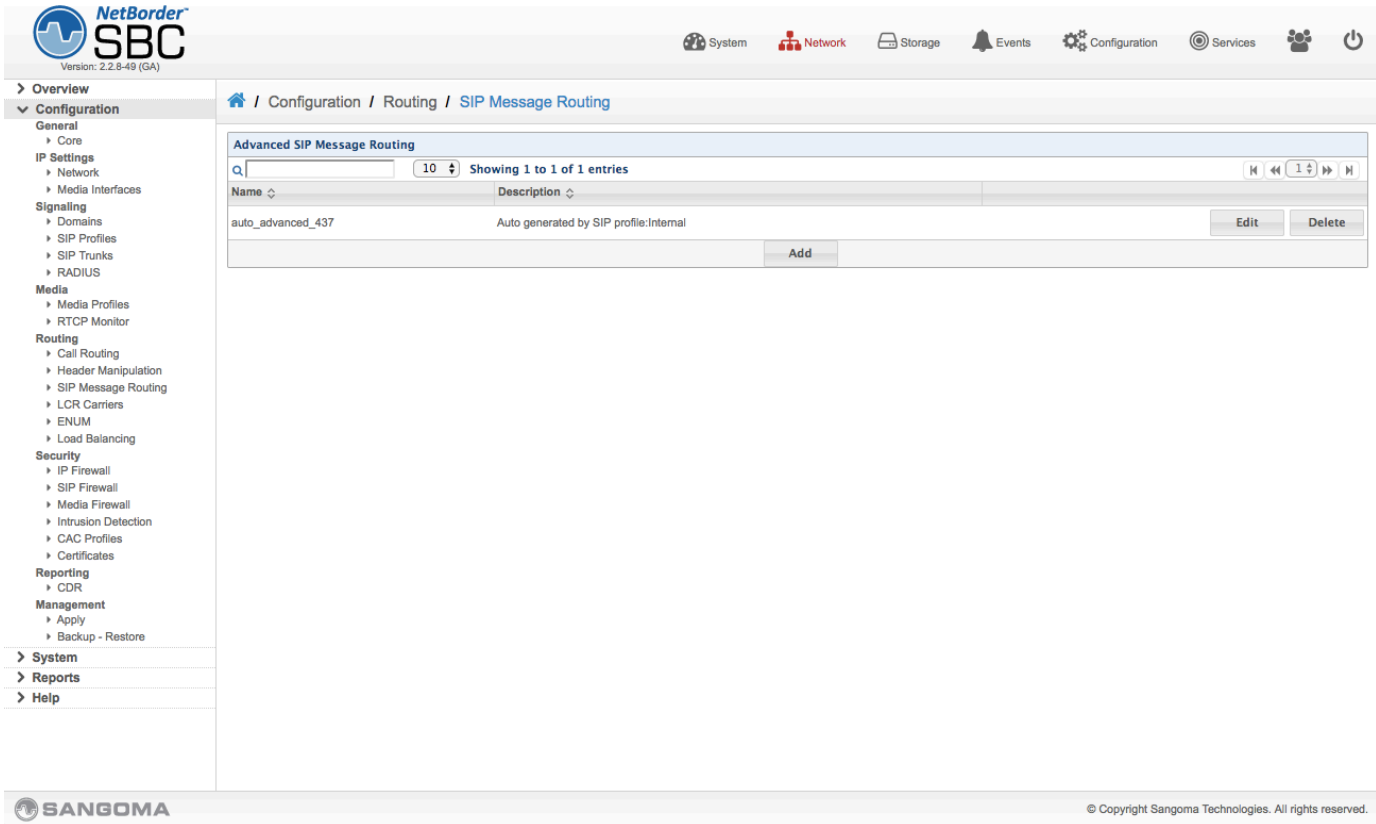
Header Manipulation

Ingress (None) Egress (None)

Save Cancel

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Switch over to "Configuration->Routing->SIP Message Routing" and you will find the routing plan, click "edit" to display the contents.



NetBorder SBC Version: 2.2.8-49 (GA)

System Network Storage Events Configuration Services

Configuration / Routing / SIP Message Routing

Advanced SIP Message Routing

Showing 1 to 1 of 1 entries

Name	Description	
auto_advanced_437	Auto generated by SIP profile:Internal	Edit Delete

Add

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In the routing plan, a condition must exist to match with each SIP Message types that was checked in SIP Profile setting -> "Siprelay allow methods". If you selected "Create New Plan", the routing plan content will be automatically generated. If you reuse existing routing plan, please make sure condition entries "expression" attribute matches with selected message types in "Sip relay allow methods".

In this routing plan, once a message type is matched, "sip_relay" application is launched to route the message to the specified destination. Optionally, header manipulation on the forwarding message can be added before the "sip_relay" application.

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```
<extension name="matchAnything">
  <condition field="$sip_unsolicited_message" expression="MESSAGE" break="on-true">
    <action application="sip_relay" data="sofia/${sofia_profile_name}/${sip_req_uri}"/>
  </condition>
  <condition field="$sip_unsolicited_message" expression="NOTIFY" break="on-true">
    <action application="sip_relay" data="sofia/${sofia_profile_name}/${sip_req_uri}"/>
  </condition>
  <condition field="$sip_unsolicited_message" expression="TR87" break="on-true">
    <action application="sip_relay" data="sofia/${sofia_profile_name}/${sip_req_uri}"/>
  </condition>
  <condition field="destination_number" expression="(.*)">
    <action application="respond" data="200 OK"/>
  </condition>
</extension>
```

The bottom of the interface features the SANGOMA logo and the copyright notice: "© Copyright Sangoma Technologies. All rights reserved."