

SBC Call Agent Ruleset Examples

Sentinel units

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Examples of Call Agent Rulesets

Replace RURI User and TO display Name if RURI User is 1xxx by 102

Conditions			
R-URI User	Operator:	Value:	Description:
	RegExp	^1...\$	✖ If username in request URI...
[Add condition]			
Actions			
Set RURI user	Value:		Description:
	102	↓ ✖	Set (override) the Request URI user part
Set To display name	102	↑ ↓ ✖	Set (override) the To display name part
Set To user	102	↑ ✖	Set (override) the To user part
New action: Set RURI [Add]			
Continue if rule matches: ☒			
Rule is active: ☒			
Comment:			

Replace the RURI User Prefix 9 by 1800 in an Outgoing Phone Number

Conditions			
R-URI User	Operator:	Value:	Description:
	RegExp	9(.*)	✖ If username in request URI...
[Add condition]			
Actions			
Strip RURI user	Value:		Description:
	1	↓ ✖	Strip digits/characters from the beginning of the RURI user part
Prefix RURI user	1800	↑ ✖	Prefix the RURI user part with the value
New action: Set RURI [Add]			
Continue if rule matches: ☒			
Rule is active: ☒			
Comment:			

Add the 1450 Prefix to an Outgoing Phone Number in RURI TO and TO Display Name

Conditions		
[Add condition]		
Actions		
Prefix RURI user	Value: 1450	Description: Prefix the RURI user part with the value
Set To user	\$rU	Description: Set (override) the To user part
Set To display name	\$rU	Description: Set (override) the To display name part
New action: Set RURI [Add]		
Continue if rule matches: ☒		
Rule is active: ☒		
Comment:		

Replacing the Entire Source Phone Number by 18001234567 - FROM Display Name and FROM User

Conditions		
[Add condition]		
Actions		
Set From display name	Value: 18001234567	Description: Set (override) the From display name part
Set From user	18001234567	Description: Set (override) the From user part
New action: Set RURI [Add]		
Continue if rule matches: ☒		
Rule is active: ☒		
Comment:		

Send Specific From Host

Replace the From Host part with somewhere.com

Conditions		
[Add condition]		
Actions		
Set From host	Value: somewhere.com	Description: ✖ Set (override) the From host or hostport part
New action: Set RURI [Add]		
Continue if rule matches: ☒		
Rule is active: ☒		
Comment:		

Allow a Specific Number Range

Allow outgoing Sip calls only for users with an extension number ranging from 76610 to 76619, 76650 to 76659, and 76660 to 76669.

Conditions			
From User	Operator: RegExp	Value: ^766[156][0-9]\\$	Description: ✖ If username in From URI ...
[Add condition]			

Remove the Prefix 9 on RURI

Conditions			
R-URI User	Operator: RegExp	Value: 9(.*)	Description: ✖ If username in request URI...
[Add condition]			
Actions			
Strip RURI user	Value: 1	Description: ✖ Strip digits/characters from the beginning of the RURI user part	
New action: Set RURI [Add]			
Continue if rule matches: ☒			
Rule is active: ☒			
Comment:			

Add CLIR Feature

Conditions		
[Add condition]		
Actions		
Set From user	Value: restricted	↓ × Set (override) the From user part
Set From display name	Value: anonymous	↑ × Set (override) the From display name part
New action: Set RURI [Add]		
Continue if rule matches: ☒		
Rule is active: ☒		
Comment:		

Drop Incoming International Call with International Call Blocked Reason

Drop all incoming international calls (i.e. numbers starting with 00) without sending a reply and blacklisting the incoming IP by firewall if repeated.

Conditions			
R-URI user	Operator: RegExp	Value: 00(+)	Description: × If username in To URI...
[Add condition]			
Actions			
Drop request	Value:	× Description: Drop request without a reply	
Event throttling key	\$si		
Blacklist by firewall if repeated	☒		
Drop reason text	International Call Blocked		
New action: Set RURI [Add]			
Continue if rule matches: ☒			
Rule is active: ☒			
Comment:			

The Reason appears under **SBC/ Events**

Events

Filter					
Source:		URI:		Contact:	
Since:		Until:		Type:	message-dropped

Displaying Records 1-1 of 1 | First | Prev | Next | Last

Time	Type	Source	Port	R-URI	From-URI	To-URI	Result code	Response phrase	Duration	AoR Contact
2020-03-30 12:00:55 UTC	message-dropped	192.168.88.11	5090	sip:00766100@192.168.88.18	sip:sipp@127.0.1.1	sip:00766100@192.168.88.18		International Call Blocked	00:00:00	

Displaying Records 1-1 of 1 | First | Prev | Next | Last

Block Outgoing International Calls and Reply with the 603 Rejected SIP Error Code

Block all outgoing international calls (i.e. numbers starting with 00) and reply with the 603 Rejected SIP error code.

Conditions			
R-URI user	Operator:	Value:	Description:
R-URI user	RegExp	00(.+)	☒ If username in From URI ...
[Add condition]			

Actions			
Reply to request with reason and code	Value:	Description:	
Code	603	☒ Refuse the call or request with a specific reason and code	
Reason	Rejected		
Header fields			
New action: Set RURI [Add]			
Continue if rule matches: ☒			
Rule is active: ☒			
Comment:			

Drop Anonymous Calls without a Reason

Conditions			
From User	Operator:	Value:	Description:
From User	RegExp	^[Aa][Nn][Oo][Nn][Yy][Mm][Oo][Uu]	✖ If username in From URI ...
[Add condition]			
Actions			
Drop request	Value:	Description:	
Event throttling key	\$si	✖ Drop request without a reply	
Blacklist by firewall if repeated	☐		
Drop reason text			
New action: Set RURI [Add]			
Continue if rule matches: ☒			
Rule is active: ☒			
Comment:			

RegExp is:

```
^[Aa][Nn][Oo][Nn][Yy][Mm][Oo][Uu][Ss]\$ | ^[Rr][Ee][Ss][Tt][Rr][Ii][Cc][Tt][Ee][Dd]\$
```

Limit Parallel Calls

Limit the parallel calls from the same source IP to 10, log a message when there are 5 parallel calls, and reject subsequent calls with SIP 403

Conditions	
[Add condition]	
Actions	
Limit parallel calls	Value: Description:  Limit the number of parallel calls through this instance
Limit parallel calls	10
Key attribute	\$si
Is global key	☒
SIP response code	403
SIP response reason	Forbidden
SIP header	Warning: Parallel calls limit reached
Soft limit	5
Report abuse	☐
New action: Set RURI  [Add]	
Continue if rule matches: ☒	
Rule is active: ☒	
Comment:	

The logs message appears under **SBC/Events**

Events

Filter			
Source:	URI:	Contact:	
Since: 	Until: 	Type: -- All --	
			Clear Search

Displaying Records 168-187 of 187 | [First](#) | [Prev](#) | [Next](#) | [Last](#)

Time	Type	Source	Port	R-URI	From-URI	To-URI	Result code	Response phrase	Duration	AoR Contact
2020-03-30 14:19:39 UTC	notice	192.168.88.11	5090	sip:101@192.168.88.18	sip:sipp@127.0.1.1	sip:101@192.168.88.18		parallel calls soft limit reached	00:00:00	

Random ANI

Set the calling number to a 4 digit random number (0000 to 9999) and copy its value to the From display username.

Conditions		
[Add condition]		
Actions		
Set From user	Value: \$_r(9)\$_r(9)\$_r(9)\$_r(9)	Description: Set (override) the From user part
Set From display name	\$fU	Description: Set (override) the From display name part
New action: Set RURI [Add]		
Continue if rule matches: ☒		
Rule is active: ☒		
Comment:		

Setting Up Traces

Log SIP/RTP traffic into pcap file. The file will be saved under **Management/File** in the **sbcs/logs** folder

Conditions		
[Add condition]		
Actions		
Log received traffic	Value:	Description: Log SIP/RTP traffic into PCAP file.
Log type	SIP and RTP	
Show DNS queries	☐	
PCAP file name	traffic.pcap	
Event attributes		
New action: Set RURI [Add]		
Continue if rule matches: ☒		
Rule is active: ☒		
Comment:		

Enable Transparent Dialog IDs

Conditions		
[Add condition]		
Actions		
Enable transparent dialog IDs	Value:	Description:
		 Allows CallID not to change as a request passes the SBC. This makes correlation of inbound and outbound calls easier.
To-tag	Stick to first received to-tag	
New action: Enable transparent dialog IDs [Add]		
Continue if rule matches: ☒		
Rule is active: ☒		
Comment:		

Online Help

If you are not familiar with the meaning of the fields and buttons, click **Show Help**, located at the upper right corner of the Web page. When activated, the fields and buttons that offer online help will change to green and if you hover over them, the description will be displayed.

DGW Documentation

Mediatrix devices are supplied with an exhaustive set of documentation.

Mediatrix user documentation is available on the [Media5 Documentation Portal](#).

Several types of documents were created to clearly present the information you are looking for. Our documentation includes:

- **Release notes:** Generated at each GA release, this document includes the known and solved issues of the software. It also outlines the changes and the new features the release includes.
- **Configuration notes:** These documents are created to facilitate the configuration of a specific use case. They address a configuration aspect we consider that most users will need to perform. However, in some cases, a configuration note is created after receiving a question from a customer. They provide standard step-by-step procedures detailing the values of the parameters to use. They provide a means of validation and present some conceptual information. The configuration notes are specifically created to guide the user through an aspect of the configuration.
- **Technical bulletins:** These documents are created to facilitate the configuration of a specific technical action, such as performing a firmware upgrade.
- **Hardware installation guide:** They provide the detailed procedure on how to safely and adequately install the unit. It provides information on card installation, cable connections, and how to access for the first time the Management interface.
- **User guide:** The user guide explains how to customise to your needs the configuration of the unit. Although this document is task oriented, it provides conceptual information to help the user understand the purpose and impact of each task. The User Guide will provide information such as where and how TR-069 can be configured in the Management Interface, how to set firewalls, or how to use the CLI to configure parameters that are not available in the Management Interface.
- **Reference guide:** This exhaustive document has been created for advanced users. It includes a description of all the parameters used by all the services of the Mediatrix units. You will find, for example, scripts to configure a specific parameter, notification messages sent by a service, or an action description used to create Rulesets. This document includes reference information such as a dictionary, and it does not include any step-by-step procedures.

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