

***C*loudfonica**

Call Filter Solution

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Cloudfonica Call Filter

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Cloudfonica Call Filter

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Assalamu Alaikum! Welcome to Cloudfonica Call Filter User Guide.

1. What is Cloudfonica Call Filter: Cloudfonica Call Filter helps you to reduce your SIM blocking using two types call filtering system. E.g.:

- A. **Filtering Callee Number** by sending repeatedly called phone numbers on same assigned port numbers.
- B. **Filtering Caller ID** by sending calls from same caller ID to same assigned port numbers.

Depending on blocking parameters or patterns of the Mobile Operators we need to select the appropriate filtering system. For that we need specific data of specific operator's blocking pattern e.g. Sims are blocking after how many minutes for which Operator?

Real Life Scenario After inserting new sims in your gateway as soon as you will send calls, call filter will start building its database and it will start binding Callee Numbers (Applicable for Callee Number filtering system) or Caller ID (Applicable for Caller ID filtering system) on each port number.

For callee number pattern, let's assume phone number 0987654321 was connected via port number 1. When this phone number 0987654321 will be dialed again, call filter will automatically connect that number using port 1.

For caller ID pattern, let's assume with caller ID "cloudfonica" a number was connected via port number 1. When from caller ID "cloudfonica", another call will come, our call filter will automatically connect the number with callerID Cloudfonica using port 1.

Callee Number /Caller ID Blacklist works efficiently using our call filter solution which will block unwanted Callee Numbers or Caller IDs which will be added in the list.

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Bulk/ Global Settings allows to add your prefixes port wise in a moment with some specific values, which will save your time configuring your system.

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2. Why Cloudfonica Call Filter: Cloudfonica Call Filter Application intelligently builds its Buckets with Callee Numbers and Caller IDs which helps to send same Callee numbers/ different numbers from same Caller IDS to the particular sims of the gateway, resulting extended sim life. Here are some key features:

- ★ Blacklists and whitelists of phone numbers/ Caller IDs to protect from the Operator's calls.
- ★ Prevent non-repeating Calls.
- ★ Server Migration
- ★ Automatic Blacklisting
- ★ Auto Increasing bucket size
- ★ Improvised multiple Call Gap pattern technique between calls to simulate HB.
- ★ Monitoring number/Caller ID length pattern while receiving calls.
- ★ Building the list of preferred numbers for each sim.
- ★ Managing Performance filter for blacklisting as per necessity.
- ★ Auto Outgoing Call Generation to simulate HB.
- ★ Extending SIM lifetime with dual (Callee + Caller) filtering technology.
- ★ Optimizing Bandwidth Efficiently.

For Optimal Performance

- ★ To get satisfactory minutes and less sim blocking,
 - Use 64 sims to run 16 concurrent calls
 - Use 128 sims to run 32 concurrent calls.

Primary idea is you need 4 times more sims, than your concurrent calls.

Cloudfonica Call Filter

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Now we will demonstrate you about the panel configuration:

3. Manage Filter: Our First Segment is Filter Management. Under this segment there are six (6) options:

- a. Manage Whitelist**
- b. Manage Blacklist**
- c. CallerID Replacement**
- d. Manage Performance filter**
- e. Manage Buckets**
- f. Bulk Ops & Default Settings**

Below we will describe the functions of the options gradually:

a. Manage Whitelist: From **Filter Management >> Manage Whitelist** option, you can add your desired whitelist numbers. Suppose, if you want, calls will only pass from your whitelist numbers, that is also possible in our system. For that you need to config like below:

For Bulk Entries:

Click on Import Callee or the Import Caller Button (according to your Data) and upload the CSV file there. Your Whitelist will be uploaded instantly depending on file size. The maximum allowed file size is 2MB. If your numbers file size is bigger than that then divide it into multiple files and upload it.

For Single Entry:

For single Entries just write down the number in whitelist Patter under ADD NEW section. Then select the type from drop down list and save it. It's done!

Cloudfonica Call Filter

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Server Time (UTC): August 20, 2022 00:19:40 PM

White List Numbers

Click here for bulk Uploading of whitelist

100 records per page

Search:

S/L	White List Pattern	Type	Action
1	123456789	Callee No.	
2	1234	Caller ID	

Showing 1 to 2 of 2 entries

First Previous 1 Next Last

Add New

- Whitelist Pattern
- Type
- Save Now

b. Allow Only Whitelist Numbers:

If you want to run **only Whitelist numbers** and block other numbers then you need to add the numbers in Whitelist first.

After that click on **Manage Blacklist** and there add the regex value “ .* “ (**dot followed by asterisk without semicolon**) as blacklist regex pattern to block the calls and pass only whitelist numbers from Mange Blacklist Option (pic below)

Carrier SIP User Optimization Client Gateway Route Management Filter Management Quick Stat

Manage White List Manage Black List CallerID Replacement Manage Performance Filter Manage Buckets Filter Settings

Blacklisted Numbers

View Inactive

100 records per page

Search:

S/L	Blacklist Pattern	Description	Type	Action
1	*226 *	Blocks every callerID which begins with 226	Caller ID	
2	*+ *	Blocks every callerID which begins with + or any special character	Caller ID	
3	*[12]5	Block every callerID which is exactly 12 digits	Caller ID	
4	12345678	block	Callee Number	
5	.*	Blocks All callee number except whitelist	Callee Number	

Showing 1 to 5 of 5 entries (filtered from 8 total entries)

First Previous 1 Next Last

Edit

- Blacklist Pattern *
- Description Blocks All callee number except v
- Type Callee Number
- Update Now Cancel

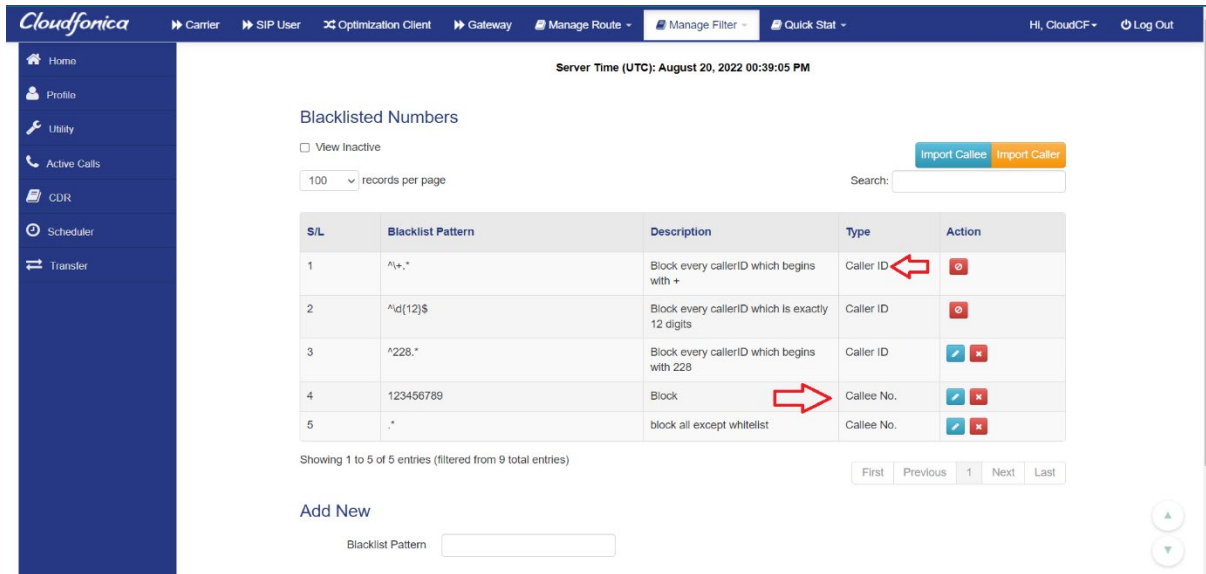
c. Manage Blacklist

In Manage Blacklist option, we can enable and disable some entries, which will Block Caller ID with + sign or caller id with 12 digits etc. also may block numbers for Callee Numbers.

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- Firstly*, Need to entry Blacklist Pattern.
- Secondly*, Need to Provide Description.
- Thirdly*, need to select type, then save the entry.



Regex entry reference (<https://www.freeformatter.com/regex-tester.html>)

1. `^\+.*` - Blocks every callerID which begins with + or any special character.
2. `^d{12}$` - Block every callerID which is exactly 12 digits.
3. `^228.*` - Block every caller ID which begins with 228
4. Block any Specific Number
5. `.*` - Blocks All, and allow whitelist.

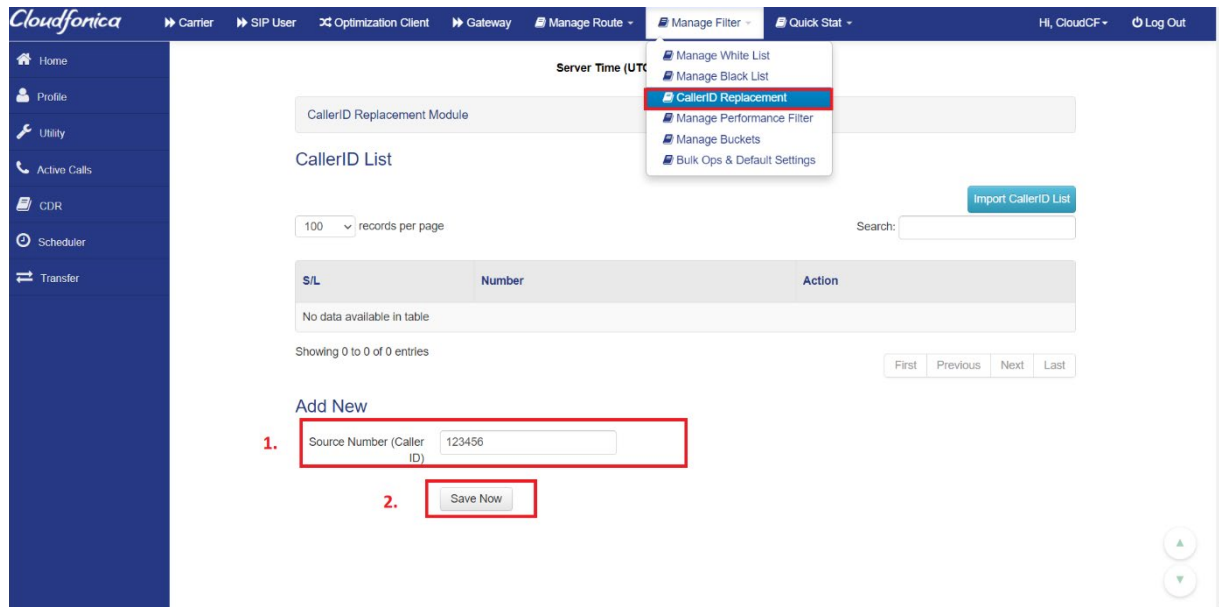
d. Caller Id Replacement

Using Caller ID Replacement Filter, you can add selected Caller ID of your own choice which may replace the actual caller ID while sending calls.

- Firstly*, Add the number.
- Secondly*, click on update now to update it.

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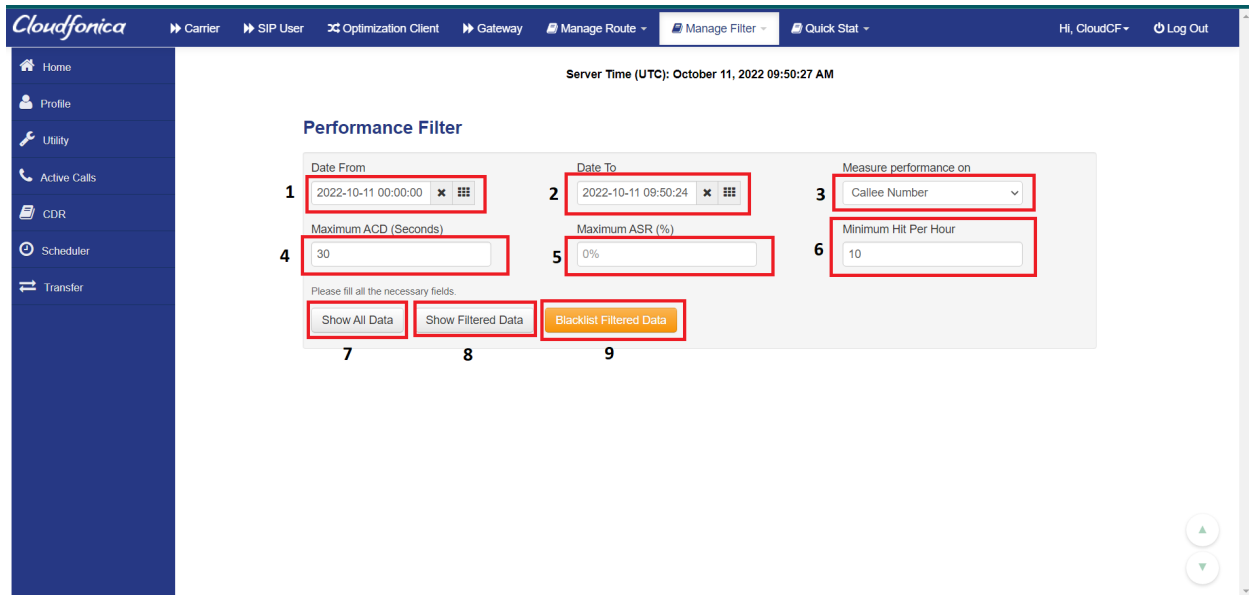
e. Manage Performance Filter

With Manage performance filter, you may sort out the numbers with bad stat and blacklist them with a single click. I will explain you how it works, below:

- a. First need to select the date range, then bucket type (caller/ callee), then if we press show data, all data will be shown below.
- b. Then we may filter the data upon 3 criteria:
 - i. Minimum Acd (Sec)-here we will put the minimum acd, we want to blacklist
 - ii. Minimum ASR (%) - here we will put the minimum asr, we want to blacklist
 - iii. Minimum Hit Per Hour - here we put the number, how many times the number was dialed and hit the system during the mentioned duration/hour.
- c. Then we can see which data meets the criteria by clicking filter data.
- d. Blacklist selected data will immediately blacklist all the filter data and you may see those in the caller/ callee blacklist option under Filter management.

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f. Manage Buckets

In the Show Bucket Details, we can see the **callee numbers** and **caller IDs** record stored against each prefix separately. This is only view mode.

- **Bucket ID (BS, LT, CG)**, here for e.g. 003030_35_IP_Gw(50,72,300) means 003030 is the specific prefix for the port 3 in gw named 35_Ip GW from the Gateway option, BS=Bucket Size=50, LT= Lease Time=72 hours =4320 mins, CG=Call Gap=300 Sec. It's the view option for the entries in Outgoing Prefix Option under Prefix Management.
- **Callee/Caller Number** will show Caller ID or Callee Number as per our filter type selection in the Incoming prefix option under Prefix Management.
- **Last Call at** shows last calls time of hitting the port
- **Total Calls** will show how many time numbers hit the port.
- **Answered** shows how many calls were answered among **Total Calls** Numbers
- **Duration** shows total duration of the numbers hit the port.
- **Action** It instantly blocklists any number with just one click.

Cloudfonica Call Filter

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List of Buckets

Select Bucket: 003030_35_IP_GW

Show Bucket Details | Clear Bucket

Details of Buckets

Lease Time = 72 Hours = 4320 Min

Bucket Size = 50

Call Gap = 300 Sec

S/L	Bucket ID (BS,LT,CG)	Callee/Caller Number	Last Call at	Total Calls	Answered	Duration	Action
1	003030-35_IP-Gw (50,72,300)	9230	1 day ago	2	2	555	[Action]
2	003030-35_IP-Gw (50,72,300)	9230	1 day ago	220	19	7157	[Action]
3	003030-35_IP-Gw (50,72,300)	9230	1 day ago	187	7	173	[Action]
4	003030-35_IP-Gw (50,72,300)	9230	14 hours ago	8	1	2	[Action]
5	003030-35_IP-Gw (50,72,300)	9230	4 hours ago	205	43	10993	[Action]

g. Bulk Ops & Settings Here the entries which you will save will be effective as preset entry in the outgoing prefix & Manage Filter Performance and you may change the values in the outgoing prefix & Manage Filter Performance segments by pressing Apply to All from here, also you may edit each entry to particular segment manually.

After Saving all individual entry we need to press **Update Now** and then Select callee/Caller type. Then click on **Update Settings** to make them effective (pic below)

1. **Call Gap** – Set call gap for every call.
2. **Bucket Lease Time (Min)** – Set Bucket duration.
3. **Bucket Size** – Set the Bucket size
4. **Gap Mode** – 0 for None, 1 for Repeating calls, 2 for Listed calls & 3 for Random.
5. **Call Concurrency** – Set how many concurrent calls can run.
6. **Time interval (min.) for black listing** – Set time to check numbers for blacklisting.
7. **Time interval (min.) for increasing bucket size** – set time to increase bucket size according to it.
8. **Default maximum hit count for PF** – Set how many hits a number need to automatically considered it in Performance Filter for blacklisting.
9. **Default maximum ACD for PF** - Set the maximum ACD value a number need to automatically considered it in Performance Filter for blacklisting.
10. **Default maximum ASR for PF** - Set the maximum ASR value a number need to automatically considered it in Performance Filter for blacklisting.

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11. Send outgoing calls after every X unique numbers - Set the value after which a random number will be called to that specific ports from any other ports of gw

The screenshot shows the Cloudfonica management interface. The top navigation bar includes 'Carrier', 'SIP User', 'Optimization Client', 'Gateway', 'Manage Route', 'Manage Filter', and 'Quick Stat'. The left sidebar contains navigation options: Home, Profile, Utility, Active Calls, CDR, Scheduler, and Transfer. The main content area is titled 'Default Settings' and contains a table with 11 rows of settings. The 11th row is highlighted, showing the setting 'Send outgoing calls after every x unique numbers' with a value of 10. An 'Update Now' button is located at the bottom of the table.

S/L	Settings Name	Settings Value	Action
1	Call Gap (Second)	1	
2	Bucket Lease Time (Minute)	4320	
3	Bucket Size	70	
4	Gap Mode	1	
5	Call Concurrency	1	
6	Time interval (min.) for black listing	10	
7	Time interval (min.) for increasing bucket size	10	
8	Default maximum hit count for PF	1	
9	Default maximum ACD for PF	20	
10	Default maximum ASR for PF	80	
11	Send outgoing calls after every x unique numbers	10	

h. Revert Settings Button:

The screenshot shows the Cloudfonica management interface with a focus on the 'Default Settings' table. A red box highlights the 'Restore' button (a blue square with a circular arrow) for the first row, 'Call Gap (Second)'. A red arrow points from a text annotation to this button. The text annotation reads: 'Click this Restore Button to Revert to the DEFAULT Settings of that Option (if you have changed that default before)'. The 'Server Time (UTC): August 11, 2022 02:14:08 PM' is displayed at the top of the main content area.

Click this Restore Button to Revert to the DEFAULT Settings of that Option (if you have changed that default before)

S/L	Settings Name	Settings Value	Action
1	Call Gap (Second)	1	
2	Bucket Lease Time (Minute)	4320	
3	Bucket Size	500	

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Click the **RESTORE** Button to **REVERT** the value to **DEFAULT** of that Option (If you have changed the Defaults before)

i. Remove All/Single GW Buckets:

S/L	Settings Name	Settings Value	Action
1	Call Gap (Second)	1	

Now You can **REMOVE All Buckets of Single/All GWS** in Cloudfonica Filter Solution with a **Single Click**. Click on Manage Filter >> Bulk Ops & Default Settings. From there -->

1. Select Callee/Caller Type according to your requirement.
2. Select the GW or All gws.
3. Click on **Remove Selected Buckets** button to **REMOVE** all the Associated buckets **instantly**.

You can **Remove All Buckets of Single/All GWS** with a **single click**. Click on Manage Filter >> Bulk Ops & Default settings. From there →

1. Select Callee/Caller Type according to requirement
2. Select the GW or All gws.
3. Click on **REMOVE SELECTED BUCKETS** Button to **REMOVE** all the associated buckets instantly.

4. Manage Route: Our next segment is Manage Route. This is very important segment of the solution. Here we will find 4 options:

a. Incoming Prefix:

In Incoming Prefix option,

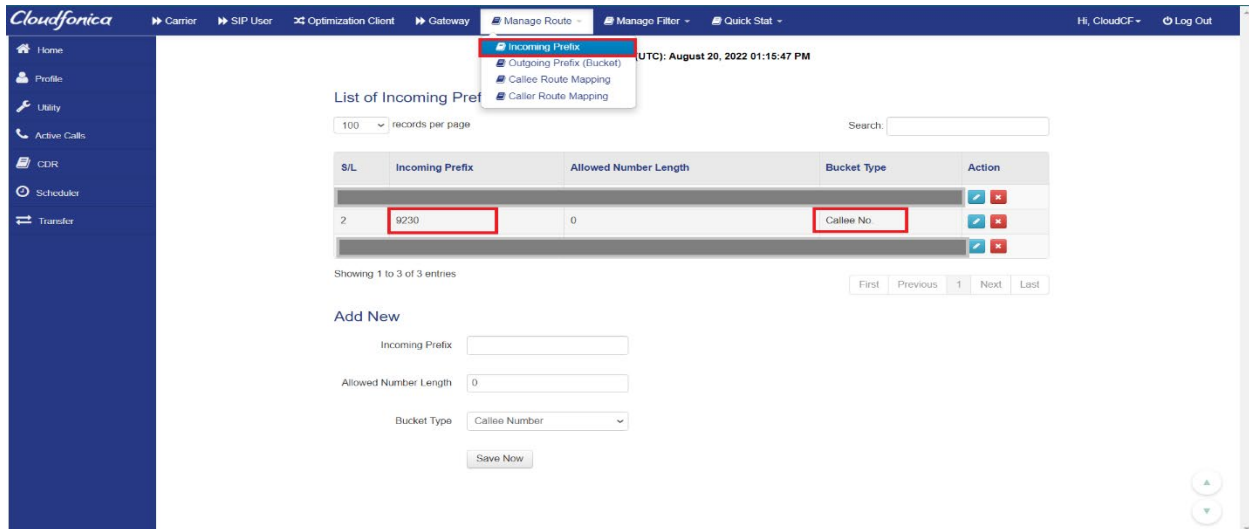
Firstly, we need to entry the Incoming Prefix for e.g. 9230, then

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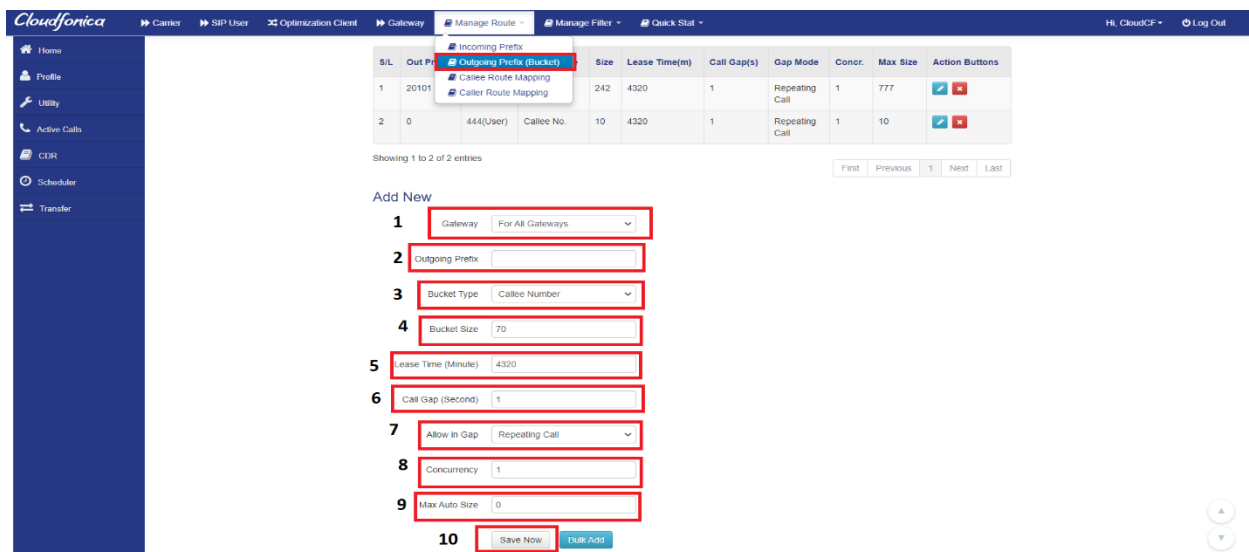
Secondly, need to enter the Allowed number length means the number length of the incoming prefix. If full number is 923026154910, then we can see there are 0 digit. So, any size number can pass here. If you set any value there, like: 8/10/12/14 etc. then if any call comes with less number than 8/10/12/14 digits or more, it will not pass.

Thirdly, we can see Bucket type which will be **Caller ID** or **Callee number**. Upon requirement we need to select the type, then press save to add the entry.



b. Outgoing Prefix(Bucket):

In Outgoing Prefix (Bucket) option, we can add/edit the values which we will add in the Callee/Caller route mapping, but for the deletion of the value here, we need to first delete the same entry in the Callee/Caller Route mapping.



Cloudfonica Call Filter

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For Single Entry:

First, we need to provide entry to Outgoing Prefix, e.g. 1010. To be noted, the prefix you will provide here will replace the incoming prefix, so if your incoming prefix is supposed 9230, your outgoing prefix will be **101030**. Here first digit **1** represents the first gw, next **01** represents the gw port no 1, then **030** is the suffix.

We will map this prefix in the Gateway port wise later, then we will guide with the Gateway Port Wise Prefix Configuration.

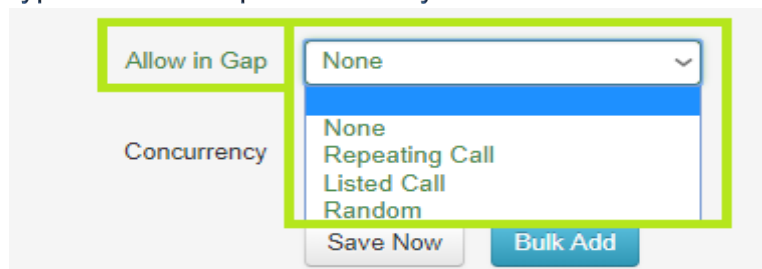
Second, select the Bucket Type as per requirement e.g.: Callee Number, Caller ID

Third, Bucket Size, this is the list size of the Callee Numbers or Caller IDs means this is list of how many numbers or IDs we want to store against each prefix /port.

Fourth, Lease Time (Minutes), here we will set the max time duration to keep the numbers which will not be repeated within that time frame in the Bucket.

Fifth, Call Gap (Seconds), here we will set the call hit interval time from the last call which passed through this prefix/ port. e.g. If call gap set 301 sec, then when any call (Active/ Ring) pass through this prefix, next call will not pass before 301 sec of the last call pass time or Bucket entry time.

Sixth, Allow in Gap, means from here you may select how the call gap feature will function. There are 4 types of Call Gap functionality here:



- A. None - Call gap will applicable for all calls
- B. Repeating Call - Call gap will be ignored only for the last dialed call but for the new numbers and bucket list numbers, call gap will be applicable.
- C. Listed Call - Call gap will be ignored for only the numbers in the bucket list but for new numbers, gap will be applicable.
- D. Random - Call gap will be applicable for all calls but it will ignore for some random numbers in a random manner (more like human behavior).

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Seventh, Concurrency, that means how many calls may pass with that specific prefix, it will be 1 always for 1 port vs 1 Prefix.

Eight, Max Auto Size – Using it, you can set **MAX BUCKET SIZE VALUE** while **creating Buckets**. Bucket will **INCREASE its Size by 1 in every mentioned duration** (set in Bulk Ops Settings) and will keep increasing until the Bucket size reaches the Declared Max Size.

Bulk Add will be convenient in the Manage Route Mapping, so it will be explained later in that particular segment below.

c. Multiple Bucket Deletion:

The screenshot shows the Cloudfonica web interface. The top navigation bar includes 'Carrier', 'SIP User', 'Optimization Client', 'Gateway', 'Manage Route', 'Manage Filter', and 'Quick Stat'. The 'Manage Route' dropdown menu is open, showing options: 'Incoming Prefix', 'Outgoing Prefix (Bucket)', 'Callee Route Mapping', and 'Caller Route Mapping'. The 'Outgoing Prefix (Bucket)' option is highlighted. Below the menu, there is a search bar and a 'Remove Selected' button. The main content area displays a table titled 'List of Outgoing Buckets' with columns: S/L, Out Prefix, Gateway, Bucket Type, Size, Lease Time(m), Call Gap(s), Gap Mode, Concr., Max Size, and Action Buttons. The table contains 6 rows of bucket data. Rows 2, 3, and 4 are highlighted in purple, indicating they are selected. A red box labeled '1.' encloses these three rows. A red box labeled '2.' encloses the 'Remove Selected' button. A red arrow labeled 'Remove Button' points to the button. A red arrow labeled 'Selected Buckets' points to the highlighted rows.

S/L	Out Prefix	Gateway	Bucket Type	Size	Lease Time(m)	Call Gap(s)	Gap Mode	Concr.	Max Size	Action Buttons
1	00101	2222(User)	Callee No.	500	4320	1	Repeating Call	1	0	
2	00404	444(User)	Callee No.	500	4320	1	Repeating Call	1	0	
3	501032	gw10(Gw)	Callee No.	500	4320	1	Repeating Call	1	0	
4	502032	gw10(Gw)	Callee No.	500	4320	1	Repeating Call	1	0	
5	503032	gw10(Gw)	Callee No.	500	4320	1	Repeating Call	1	0	
6	504032	gw10(Gw)	Callee No.	500	4320	1	Repeating Call	1	0	

Now You can Remove multiple buckets easily from Manage Route >> Outgoing Prefix (Bucket) option.
Just Select the required Buckets AND then Click Remove Selected Button to Delete the buckets Instantly.

You can **REMOVE Multiple Buckets** Easily from Manage Route >> Outgoing Prefix (Bucket) option. Just select the Required Buckets & then Click **REMOVE SELCETED** Button to **DELETE** the buckets instantly

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d. Callee Route Mapping:

In Callee Route Management, we will map the Outgoing Prefixes with Incoming Prefix along with Gateway for Callee.

Firstly, we will select the Incoming Prefix for Callee number type, you will see the incoming prefix here if you assigned bucket type as callee number in the incoming prefix segment.

Secondly, we will select the particular Gateway/ For all gateways for the incoming Prefix for Callee

Thirdly, we will select the Outgoing Prefix according to the incoming Prefix for single or for all Buckets for Callee.

Cloudfonica

Carrier > SIP User > Optimization Client > Gateway > Manage Route

Hi, CloudCF - Log Out

it 20, 2022 01:36:28 PM

List of Callee Routes

100 records per page

Search:

S/L	In Prefix	Out Prefix	Termination	Length	Size	Lease Time (m.)	Gap (s.)	Gap Mode	Concr.	Action Buttons
1	8801	20101	2222	0	243	4320	1	Repeating Call	1	
2	01	0	444	3	10	4320	1	Repeating Call	1	

Showing 1 to 2 of 2 entries

First Previous 1 Next Last

Add New

1 Incoming Prefix

2 Gateway For All Gateways

3 Outgoing Prefix For All Buckets

4 Save Now 5 Bulk Add 6 Bulk Remove

e. Bulk Remove:

Bulk remove option is used to remove Gw wise single/All callee route mapping entries. Here you can select Gw wise single/gw wise entries and then click Bulk remove to remove them all with a single click

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List of Callee Routes

100 records per page

Search:

S/L	In Prefix	Out Prefix	Termination	Length	Size	Lease Time (m.)	Gap (s.)	Gap Mode	Concr.	Action Buttons
1	8801	00101	2222	0	500	4320	1	Repeating Call	1	<input type="button" value="x"/>
2	01	00404	444	0	500	4320	1	Repeating Call	1	<input type="button" value="x"/>

Showing 1 to 2 of 2 entries

First Previous 1 Next Last

Add New

Incoming Prefix

Gateway For All Gateways

Outgoing Prefix For All Buckets

Save Now

Bulk Remove Option has been Added in Manage Route >> Callee Route Mapping Section. Now You can Remove All Ports/Single Port Entry of Single/All GWS with a SINGLE CLICK.

f. Bulk Add:

Now I will explain you how to Bulk Add callee route mapping:

- I. First, we need to select the incoming from the incoming prefix option.
- II. Then need to select the Gateway
- III. Then we need to enter the value for how many prefixes we want to add, for example if you have 16 port gateway, then the value will be 16 for number of prefix.

Suppose our first prefix will be **1 01 0**

- IV. So, here value for start prefix will be **1**
- V. Mid length will be 2 as **01** consists 2 digits.
- VI. End prefix with **0**
- VII. Assign value for bucket size as per necessity.
- VIII. Assign value for Lease time
- IX. Assign value for Call Gap as per necessity.
- X. Allow in GAP criteria's as per necessity (explained in outgoing section)
- XI. Assign value for concurrency as per necessity.

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XII. Assign Value for Max Auto Size **500** so that bucket size will keep increasing until it reaches size 500

The facility of adding bulk entries from Callee Route Mapping is, we can add prefixes for any range with any gateway easily from here but to edit any value we have to edit that from outgoing prefix Segment.

The screenshot shows the 'Edit' page in the Cloudfonica interface. The left sidebar contains navigation options: Home, Profile, Utility, Active Calls, CDR, Scheduler, and Transfer. The main content area is titled 'Edit' and contains the following fields:

- Incoming Prefix: 9230
- Gateway: For All Gateways
- Number of Prefix: 16
- Start Prefix with: 1
- Mid Length: 2
- Fill Mid with: (empty)
- Start Mid from: 01
- End Prefix with: 0
- Bucket Size: 70
- Lease Time (Minute): 4320
- Call Gap (Second): 1
- Allow in Gap: Repeating Call
- Concurrency: 1
- Max Auto Size: 500

At the bottom, there are 'Add Now' and 'Cancel' buttons. A diagram on the right side of the form shows the mapping of these values to a specific prefix range: 1-01-01-0, with the '500' value from the 'Max Auto Size' field also indicated.

g. Caller Route Mapping:

In Caller Route Management, we will map the Outgoing Prefixes with Incoming Prefix along with Gateway for Caller ID type filtering.

Firstly, we will select the Incoming Prefix for Caller ID, you will see the incoming prefix here if only you assigned bucket type as Caller ID in the incoming prefix segment.

Secondly, we will select the particular Gateway for the incoming Prefix for Caller ID

Thirdly, we will select the Outgoing Prefix according to the incoming Prefix for Caller ID (pic above)

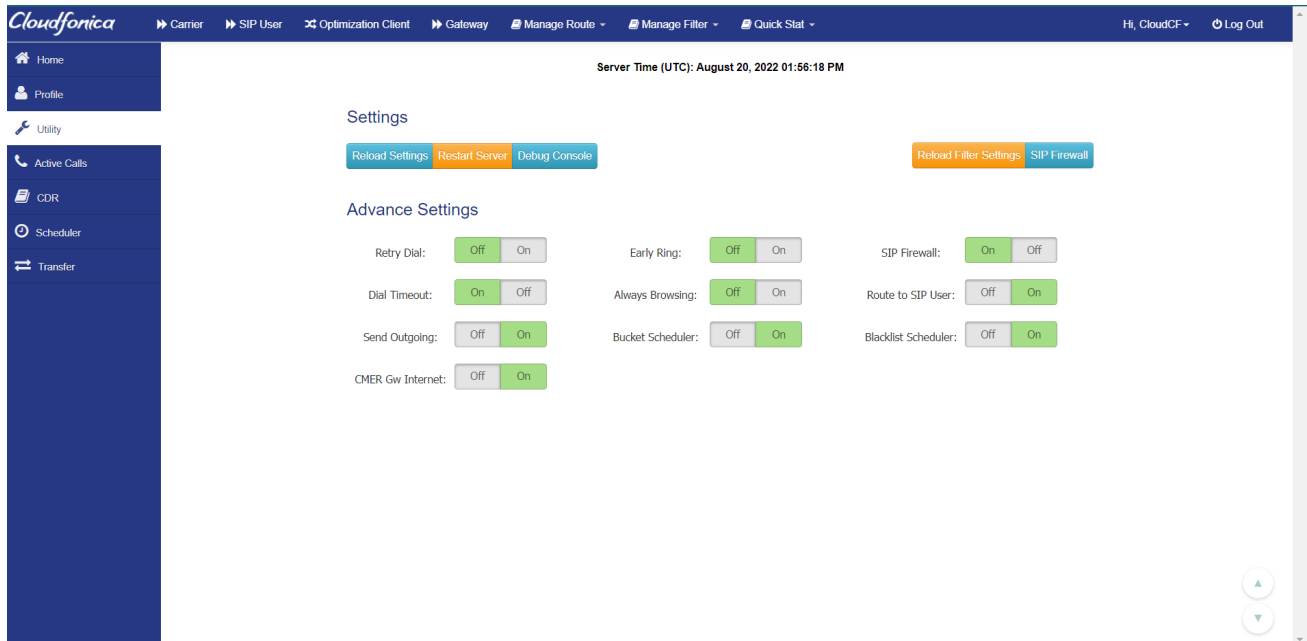
Bulk Add technique is same as callee Route Management, please check above for reference.

5. Utility:

From Utility options we may find:

Cloudfonica Call Filter

Disclaimer: Our Solution does not provide any guarantee that sim will not be blocked. It will extend sim life. All Rules are not for all countries. It varies country to country, operator to operator.



1. **Retry Dial**
2. **Early Ring**
3. **Sip Firewall**
4. **Dial Timeout**
5. **Always Browsing**
6. **Route to SIP User**
7. **Send Outgoing**
8. **Bucket Scheduler**
9. **Blacklist Scheduler**
10. **CMER Gw Internet**
11. **Reload Filter Settings**
12. **Sip Firewall**

also, some other feature like:

- **Debug Console.**

we will explain the features below:

1. **Retry Dial [On/Off]:** when Retry dial in off, system will ring the call once then drop, whereas when retry dial is on, calls will dial the 2nd time if first attempt failed. With retry dial option on, ASR may increase a bit as well as Failed Calls may reduce if there are many with Normal Dial.

*Default Settings: **Off***

Cloudfonica Call Filter

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2. **Early Ring [On/Off]:** If early ring is on, asterisk will send immediate 183 session with a ring-back tone to caller, before callee get the call, it may lower the PDD, whereas when Early ring is off, it sends the ring-back tone when the call reaches to the callee.
Default Settings: off.
3. **Sip Firewall [On/Off]:** with firewall on no calls will hit without the IP listed in the carrier section, with firewall off calls may hit from other ips but will not succeed to pass the server. with this option on we may see from which ips calls are coming from debug console sections if required.
Default Settings: Firewall ON.
4. **Dial Timeout [On/Off]:** If dial timeout is off, system will not send 603 error
Default Settings: ON
5. **Always Browsing [On/Off]:** Always browsing on will keep the Gateway Browsing mode on always. You have disable it manually from Gateway section. Always off option will disable the browsing mode after 30 mins from enabling the option automatically. So, use this option as per your necessity.
Default Settings: OFF
6. **Route to Sip User [On/Off]:** Route to sip user option will enable the calls route to sip users, created in the Sip User section. e.g.: you may create a sip user with user name & password in the Sip User section and register your gw with your cloud ip, sip user-name & password, then send calls directly to your gw (Useful for router clients who wants to use gateway in a remote location).
Default Settings: OFF.
7. **Send Outgoing:** By Setting this, your system will generate an auto call from previously dialed numbers automatically to prevent non repeating calls (Set according to the Bulk Ops & Default Settings Option)
Default Settings: OFF.
8. **Bucket Scheduler:** This option is designed to increase your bucket size automatically with time (Set in Bulk Ops & Default Settings Option)
Default Settings: OFF.
9. **Blacklist Scheduler:** This option is designed to blacklist numbers automatically using settings (Set in Bulk Ops & Default Settings Option)

Cloudfonica Call Filter

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Default Settings: **OFF**.

10. **CMER Gw Internet [ON/Off]**: This option allows/blocks internet connected to CMER Based router/PC.

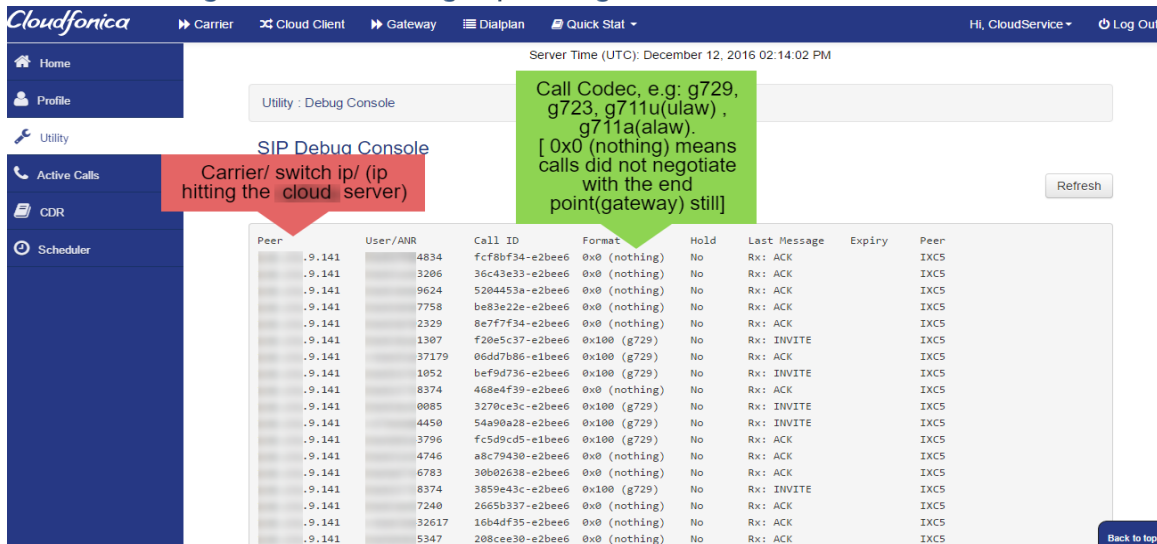
Default Settings: **OFF**.

11. **Reload Filter Settings**: This option reloads all filter settings

12. **Sip Firewall**: This unique option allows you to add your Ip for Testing calls without turning the sip firewall off. Just add your Ip there and save it like below image.



• **Debug Console**: From here we can see the switch end codec and from which ip's, calls are hitting our server using Sip debug console.



6. Transfer/Clone Servers:

Cloudfonica Call Filter

Disclaimer: Our Solution does not provide any guarantee that sim will not be blocked. It will extend sim life. All Rules are not for all countries. It varies country to country, operator to operator.

Now You can **TRANSFER/Migrate** your **Settings & Data** from **Old** Cloudfonica filter server to **New** Call filter server.

For that both servers must be version 9.0 or Higher →

Let's Assume the **OLD SERVER IP** is (x.x.x.x) & the **NEW SERVER IP** is (y.y.y.y)

1. In Old server IP's **TRANSFER REQUEST OPTION** enter the **New Server IP** & click on **Transfer** Button
2. Then It'll show you a message like the Image with a **PIN** after starting the transfer process.
3. Refresh The Page after sometime until you see the confirmation message of receiving data in **New server**
4. Then in **New Server's Receive Request Option** type the **Old Server Ip** and the **pin** (It'll show in old server).
5. Then You'll see a confirmation Message Like this & click on **CONFIRM**
6. Then you'll see a message like the image mentioning –“**Successfully started to receive from x.x.x.x ip with pin 123456**”
7. Then wait for some time, depending on your old server's configuration & DB size the **transfer will then proceed and complete** in New Server

The screenshot displays the Cloudfonica Call Filter web interface. At the top, there is a navigation bar with links for Carrier, SIP User, Optimization Client, Gateway, Manage Route, Manage Filter, Quick Stat, and Log Out. The server time is shown as November 08, 2023 05:04:03 PM. The main content area is divided into two sections: Transfer Request and Receive Request. The Transfer Request section features a heading "Transfer Request" and a large red heading "OLD SERVER (x.x.x.x)". Below this, a light blue box contains the text "DB Size: 1.047 MB. Please enter a valid ip address to transfer. It may require from few seconds to few hours depending on DB Size." A form field for "Server IP" contains the value "y.y.y.y" and is highlighted with a red box. A "Transfer" button is next to it. To the right, two numbered instructions are provided: "1. Type the New Server IP here in which you want to transfer all the data" and "2. Then click on Transfer button to initiate the process." The Receive Request section has a heading "Receive Request" and a light blue box with the text "You require the service IP address and provided PIN from where you want to move this service". Below this, there are form fields for "Server IP" and "PIN", and a "Receive" button. A vertical scrollbar is visible on the right side of the page.

Cloudfonica Call Filter

Disclaimer: Our Solution does not provide any guarantee that sim will not be blocked. It will extend sim life. All Rules are not for all countries. It varies country to country, operator to operator.

Server Time (UTC): November 08, 2023 05:07:00 PM

Successfully started the transfer to ip **y.y.y.y** from ip **x.x.x.x** and pin 177388

Transfer Request

Then you'll get a message mentioning -" Successfully started the transfer to ip **y.y.y.y (New IP)** from ip **x.x.x.x (Old IP)** and pin **123456**

DB Size: 1.047 MB. Please enter a valid ip address to transfer. It may require from few seconds to few hours depending on DB Size.

Server IP :

Receive Request

You require the service IP address and provided PIN from where you want to move this service

Server IP : PIN :

OLD SERVER (x.x.x.x)

Server Time (UTC): November 08, 2023 05:26:40 PM

Remove Transfer
File is ready to transfer on **x.x.x.x** Please receive it from ip **y.y.y.y** with pin 177388

Refresh the page after sometime until you see this new message -- " File is ready to transfer on **x.x.x.x (old IP)**. Please receive it from **y.y.y.y (New IP)** with pin **123456**

OLD SERVER (x.x.x.x)

Cloudfonica Call Filter

Disclaimer: Our Solution does not provide any guarantee that sim will not be blocked. It will extend sim life. All Rules are not for all countries. It varies country to country, operator to operator.

Carrier SIP User Optimization Client Gateway Manage Route Manage Filter Quick Stat Hi, CloudCF

Server Time (UTC): November 08, 2023 05:34:15 PM

Transfer Request **New Server (y.y.y.y)**

DB Size: 1.047 MB. Please enter a valid ip address to transfer. It may require from few seconds to few hours depending on DB Size.

Server IP : Transfer

Receive Request

You require the service IP address and provided PIN from where you want to move this service

Server IP : PIN : Receive

Then in **New Server IP's** Receive Request option type the **Old Server IP (x.x.x.x)** and the **Pin 123456**
Then click on **Receive** Button to Initiate Receiving Data from Old Server

Transfer Request

DB Size: 1.047 MB. Please enter a valid ip address to transfer. It may require from few seconds to few hours depending on DB Size.

Server IP : Transfer

Receive Request

Reveive from X.X.X.X ?

If started successfully, this process cannot be undone. Are you sure you want to start?

Confirm Cancel

Then You'll see a confirmation message of -- " **Receive from x.x.x.x (Old Server IP)**
Then click on **CONFIRM** Button

Carrier SIP User Optimization Client Gateway Manage Route Manage Filter Quick Stat Hi, CloudCF

Server Time (UTC): November 08, 2023 05:37:49 PM

Successfully started to receive from ip **x.x.x.x** and pin: 177388

Then you'll get another message -" **Successfully started to receive from ip x.x.x.x (old IP) and pin 123456**

Transfer Request

DB Size: 1.047 MB. Please enter a valid ip address to transfer. It may require from few seconds to few hours depending on DB Size.

Server IP : Transfer **New Server (y.y.y.y)**

Cloudfonica Call Filter

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Server Time (UTC): November 08, 2023 05:49:43 PM

All transfer is done successfully. You can use this service now.

After Sometime refresh the Page until you see this Success message - "All transfer is done successfully, You can use this service now."

New Server (y.y.y.y)

7. Gateway Configuration:

Here we will guide you to configure your gateway according to outgoing Prefix to map the prefixes port wise:

a. Goip:

Cloudfonica Call Filter

Disclaimer: Our Solution does not provide any guarantee that sim will not be blocked. It will extend sim life. All Rules are not for all countries. It varies country to country, operator to operator.

SN(Serial Number): 32MCFRM17124651
 Firmware Version: GST1610-1.01-62-3
 Module Version: M35FAR02A01_RSIM
 Uptime: 10:18:38
 Last Login Time: 2018-01-17 10:48:11
 Current Time: 2018-01-17 14:19:10

SIP

Config Mode:

SIP Trunk Gateway1:

SIP Trunk Gateway2:

SIP Trunk Gateway3:

Phone Number:

Re-register Period (s):

Authentication ID:

Password:

Prefix Match Mode: Match Caller Match Callee

Delete Callee Prefix while Dialing: Enable Disable

Routing Prefix

Line 1 Line 2 Line 3 Line 4 Line 5 Line 6 Line 7 Line 8
 Line 9 Line 10 Line 11 Line 12 Line 13 Line 14 Line 15 Line 16
 Line 17 Line 18 Line 19 Line 20 Line 21 Line 22 Line 23 Line 24
 Line 25 Line 26 Line 27 Line 28 Line 29 Line 30 Line 31 Line 32

Line 1 Routing Prefix:

简体中文
Logout

SN(Serial Number): 32MCFRM17124651
 Firmware Version: GST1610-1.01-62-3
 Module Version: M35FAR02A01_RSIM
 Uptime: 10:26:37
 Last Login Time: 2018-01-17 10:48:11
 Current Time: 2018-01-17 14:27:09

Call OUT

GSM Auto Redial: Enable Disable

Outbound Memory: Enable Disable

GSM Dial Timeout(s):

GSM None Ringback Timeout(s):

CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8
 CH9 CH10 CH11 CH12 CH13 CH14 CH15 CH16
 CH17 CH18 CH19 CH20 CH21 CH22 CH23 CH24
 CH25 CH26 CH27 CH28 CH29 CH30 CH31 CH32

Call OUT via GSM: Enable Disable

Forwarding to Number:

Dial Plan:

Restricted Dial Plan: Enable Disable

When 1 calls occurs, Deactivate the line for seconds, Call type: Answered Calls

b. Skyline:

Cloudfonica Call Filter

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More Easy-communication

- Status Information
 - Call Status
 - Device Status
 - System Status
 - SMS Statistics
 - InterCall Statistics
- Gateway Settings
 - Network Setting
 - Phone Book
 - SIP Setting
 - Port Setting
 - Base Station
 - IMEI Setting
 - Rules Setting
 - Mobile Setting
 - SMS Setting
 - USSD Setting
 - Automation
 - SIMPOOL Setting
 - InterCall Setting
 - Callback Setting
 - Callwait Setting
 - Call Dur Setting
 - SMS Ctrl Setting
 - Auto Recharge

Route By From: Disabled Enabled If enabled, only accept the call whose "From" header is matched.

Submit

SIP Accounts

Port	Allowed Prefix	Phone Number	Account	Password	Status
1	001				
2	002				
3	003				
4	004				
5	005				
6	006				
7	007				
8	008				
9	009				
10	010				
11					
12					
13					
14					
15					
16					
17					



More Easy-communication

- Status Information
 - Call Status
 - Device Status
 - System Status
 - SMS Statistics
 - InterCall Statistics
- Gateway Settings
 - Network Setting
 - Phone Book
 - SIP Setting
 - Port Setting
 - Base Station
 - IMEI Setting
 - Rules Setting
 - Mobile Setting
 - SMS Setting
 - USSD Setting
 - Automation
 - SIMPOOL Setting
 - InterCall Setting
 - Callback Setting
 - Callwait Setting
 - Call Dur Setting
 - SMS Ctrl Setting
 - Auto Recharge

Prefix

Prefix Translation (GSM --> IP) Add New Delete

<input type="checkbox"/>	Ports	Original Prefix	Translated Prefix	Operation
No Data				

Data Detail

Data Status: Callee Prefix: Digits Stripped: Digits Added: Submit

Prefix Translation (IP --> GSM) Add New Delete

<input type="checkbox"/>	Callee Prefix	Digits Stripped	Digits Added	Operation
No Data				

CallerId Hidden

CallerId Hidden: ▼ Dial Prefix: Submit

Black List

Black List Add New Delete

Cloudfonica Call Filter

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c. Dinstar:
(Dinstar New Firmware):

The screenshot shows the Dinstar Web Management System interface for the new firmware. The left sidebar contains a navigation menu with the following items: System Information, Statistics, Network Configuration, Mobile Configuration, SMS and USSD, Call Configuration (expanded), SIP Configuration, SIP Trunk Configuration, SIP Trunk Group Configuration, Port Configuration, Port Group Configuration, Digit Map, IP->Tel Routing (highlighted), Tel->IP Routing, Service Parameter, Media Parameter, DBO Parameter, Advanced, Diagnostic, and Tools. The main content area displays the 'IP->Tel Routing Modify' form with the following fields:

- Index: 45
- Description: ALL
- Source: Any (dropdown)
- Destination: port-group-0 <MTN> (dropdown)
- Call Restriction: Allow Call (dropdown)
- Advanced Rules:
 - Source Prefix: (empty)
 - Destination Prefix: 001
 - Prefix to Add: (empty)
 - Digits to be Deleted: 3

Below the form, a red note states: "NOTE: If the 'Source IP' is 'Any', Any IP can send traffic to this device!!!". At the bottom of the form are three buttons: Save, Reset, and Cancel.

(Dinstar Old Firmware): Routing Configuration >> IP->Tel Routing

The screenshot shows the Dinstar Web Management System interface for the old firmware. The left sidebar contains a navigation menu with the following items: System Information, Statistics, Network Configuration, Security Center, Mobile Configuration, SMS and USSD, Routing Configuration (expanded), Routing Parameter, IP->Tel Routing (highlighted), Tel->IP Routing, Manipulation Configuration, Operation, Port Group Configuration, IP Trunk Configuration, System Configuration, Human Behavior, Digit Map, and Tools. The main content area displays the 'IP->Tel Routing Modify' form with the following fields:

- Index: 1
- Description: local030
- Source Prefix: any
- Source IP:
 - IP: 31 <local> (dropdown)
 - IP Group: (dropdown)
 - SIP Server: (dropdown)
- Destination Prefix: 001
- Destination:
 - Port: 1 (dropdown)
 - Port Group: 0 <all> (dropdown)

Below the form, a red note states: "NOTE: If the 'Source IP' is 'Any', Any IP can send traffic to this device!!!". At the bottom of the form are three buttons: OK, Reset, and Cancel.

Cloudfonica Call Filter

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(Dinstar Old Firmware): Manipulation Configuration >> IP->Tel Destination Numbers

The screenshot displays the Dinstar Web Management System interface. On the left is a navigation menu with the following items: System Information, Statistics, Network Configuration, Security Center, Mobile Configuration, SMS and USSD, Routing Configuration, Manipulation Configuration (highlighted), IP->Tel Destination Numbers (highlighted), Tel->IP Source Numbers, Tel->IP Destination Numbers, Operation, Port Group Configuration, IP Trunk Configuration, System Configuration, Human Behavior, Digit Map, and Tools. The main content area is titled 'IP->Tel Destination Numbers Modify' and contains the following fields:

- Index: 1
- Description: local030
- Source Prefix: any
- Source: IP (31 <local>), IP Group, SIP Server
- Destination Prefix: 001
- Destination: Port (1), Port Group (0 <all>)
- Stripped Digits from Left: 3
- Stripped Digits from Right: (empty)
- Prefix to Add: (empty)
- Suffix to Add: (empty)

Below the form, there is a red note: "NOTE: If you need route calls after manipulation, set the destination port to any." At the bottom of the form are three buttons: OK, Reset, and Cancel.

d. Addpac:

Cloudfonica Call Filter

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- System**
 - Language
 - WAN Setup
 - LAN Setup
 - NAT
 - NTP
 - Remote Access Controller
 - Remote SIM Server
 - VTO Service
 - System Time
 - File Browser
- Basic**
 - Protocol
 - Server SIP
 - Server H.323
 - Mobile Extension
 - DTMF/CODEC
 - VoIP Dial Plan
 - Mobile Dial Plan**
 - Static Route
 - Hot Line
- Advanced**
 - Port Control
 - Mobile PINs
- Advanced**
 - Port Control
 - Mobile PINs
 - Mobile USSD
 - Fax
 - Service
 - Filtering
 - Security
 - Radius
 - SNMP
 - WEB Callback
 - Mobile Callback
- Miscellaneous**
 - Mobile Summary
 - System Status
 - Mobile Status
 - Mobile Port Statistics
 - Call Log
 - System Log
 - Ping
 - Mobile Band
 - BTS Selection
 - GSM BTS Info
 - SIM Traffic Monitor
 - SIM Diagnosis

Mobile Dial Plan / Prefix

Port Information

Port	P0	P1	P2	P3
SLOT 0	GSM	GSM	GSM	GSM
SLOT 1	GSM	GSM	GSM	GSM

FXS
FXO/E&M
E1/T1
Mobile

Plan Table

Rule Num	Digits to Insert	Digits to delete	Digit Pattern	Control
300		3	801030T	<input type="checkbox"/>
301		3	802030T	<input type="checkbox"/>
302		3	803030T	<input type="checkbox"/>
303		3	804030T	<input type="checkbox"/>
304		3	805030T	<input type="checkbox"/>
305		3	806030T	<input type="checkbox"/>
306		3	807030T	<input type="checkbox"/>
307		3	808030T	<input type="checkbox"/>

Delete

Information

AddPac Technology
 Model : GS708_G2
 HW Version : 2.0
 SW Version : 8.51.014
 Smart Web Version : 0.4
 Smart Web Build : Jul 22 2014
 Voice Interface
 G(4) : G(4)
 Protocol : SIP
 Status : Unregistered
 Current Calls : 1
 CallNetwork : Static
 192.168.101.50
 Mac Address : 0002.a409.5ef4
 Unread Message:
 P0:0(29)
 P0:1(40)
 P0:2(61)
 P0:3(29)
 P1:0(32)
 P1:1(0)
 P1:2(14)
 P1:3(45)

Description

Configure the settings for Mobile Dial Plan and Prefix table

PREFIX Table

Pots Num	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
4584	801030T		300	0/0	<input type="checkbox"/>
4585	802030T		301	0/1	<input type="checkbox"/>
4586	803030T		302	0/2	<input type="checkbox"/>
4587	804030T		303	0/3	<input type="checkbox"/>
4588	805030T		304	1/0	<input type="checkbox"/>
4589	806030T		305	1/1	<input type="checkbox"/>
4590	807030T		306	1/2	<input type="checkbox"/>
4591	808030T		307	1/3	<input type="checkbox"/>

Delete

* Mobile Dial Plan - Assigned Translation-Rule Tag Number : 300 - 399
 * Mobile Dial Plan - Assigned VoIP Tag Number : 4584 - 4683


e. E-Join:

Cloudfonica Call Filter

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GoIP32/128 Version: 4.7.7.826
192.168.101.55 41:54:59

GSM/CDMA/WCDMA/LTE



- Basic Settings
- SIP Protocol
 - Basic Settings
 - Channel Settings**
 - STUN Settings
 - MNP Settings
- Gateway Settings
- SMS Settings
- App Settings
- Advanced Settings
- System Settings
- Running Status
- Save and Reboot

Channel Settings

SIP Accounts Collapse


Multiple Port Support: * If enabled, each account can use various port to register to server.

Use Best Matched Lines:

Port	Allowed Prefix	Phone Number	Account	Password	Status
1	001				
2	002				
3	003				
4	004				
5	005				
6					
7					
8					
9					
10					
11					
12					

GoIP32/128 Version: 4.7.7.826
192.168.101.55 41:56:36

GSM/CDMA/WCDMA/LTE



- Basic Settings
- SIP Protocol
- Gateway Settings
- SMS Settings
- App Settings**
 - Phone Book
 - Dial Plan
 - Num Translation
 - Inward Translation**
 - Inward Black List
 - Inward White List
 - SIM Pool Settings
 - Auto Recharge
 - State Notification
- Advanced Settings
- System Settings
- Running Status
- Save and Reboot

Incoming Call Number Translation Settings

Translation List Collapse

Data Details

Data Status:

Callee Prefix: * Asterisk means match all digits

Digits Stripped: * 0 means not stripping prefix

Digits Added:

Data List

<input type="checkbox"/>	Callee Prefix	Digits Stripped	Digits Added	Operation
No Data				

CallerId Hidden Collapse

CallerId Hidden:

Dial Prefix:

f. ETS (Etross):

Cloudfonica Call Filter

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- + Status
- + Sim Card
- Operator Config
- + Human Behavior
- + Port
- Trunk
- + Usdd
- + SMS
- + SMS BULK
- + Balance Manage
- + Auto Recharge
- + Call Limit
- Call Routing
- Route Config
- Blacklist Config
- + SBO
- + System
- + Network Settings
- + Tools

Call Routing Profile List	
Profile Name	
sip-gsm	Delete
gsm-sip	Delete
Add	

- + Status
- + Sim Card
- Operator Config
- + Human Behavior
- + Port
- Trunk
- + Usdd
- + SMS
- + SMS BULK
- + Balance Manage
- + Auto Recharge
- + Call Limit
- Call Routing
- Route Config
- Blacklist Config
- + SBO
- + System
- + Network Settings
- + Tools

Modify Dial Profile

Description:

Digit Mapping 1 Delete

Number Translation: Time Schedule: Disable Config

Service: All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Digit map syntax:
 Goip digit map supports: 'x', '[', ']', '-', '*', the digit.
 Every rule always ends with a ';'.
 1:x
 The character 'x' as a wildcard, it can represent '*' and all digital.
 2:[-]
 Two digits separated by hyphen ('-') which matches any digit between and including the two.
 The subrange construct can only be used inside a range construct, i.e., between '[' and ']'.
 For Example, '[1-5]' mean the range of is 1 to 5.
Number translation syntax:
 '[a:123]' expressed that add number '123' before the current location.
 '[m:6]' expressed that revises the current position digit 6.
 '[d]' expressed that delete the current digital.
Examples:
 1: Modify the called number '123456' to '127893456', you can set as '12[a:789]'.
 2: Modify the called number '123456' to '183456', you can set as '1[m:8]'.
 3: Modify the called number '123456' to '12356', you can set as '123[d]'.

Cloudfonica Call Filter

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8. Sip User:

Now you can create sip users directly from our Cloudfonica and test calls through any mobile sip dialer. Steps for creating sip users are:

1. Assign a username.
2. Assign a password
3. Assign Call Limit.
4. Assign Codec.
5. Save Now.

S/L	Username	Password	Call Limit	Codec	Action
1	1111	1111	10	g729-20,g723-30	+ -
2	2222	2222	10	g729-20,g723-30	+ -
3	333	333	1	g729-20,g723-30	+ -
4	444	444	1	g729-20,g723-30	+ -

Now will explain steps for making calls:

1. From Utility, disable firewall.
2. Reload All Settings.

OR

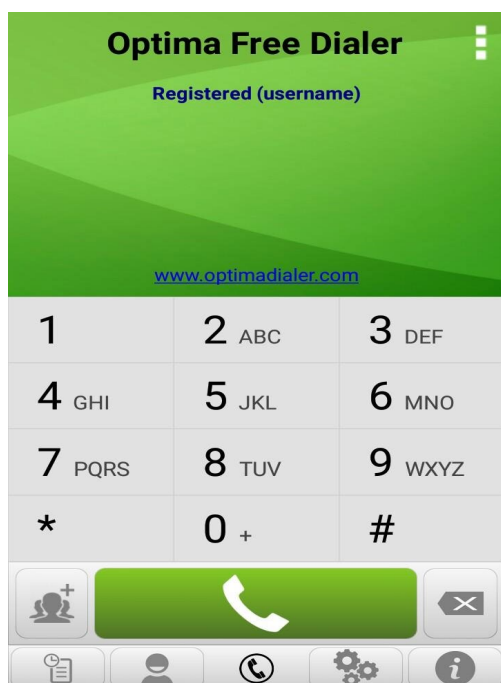
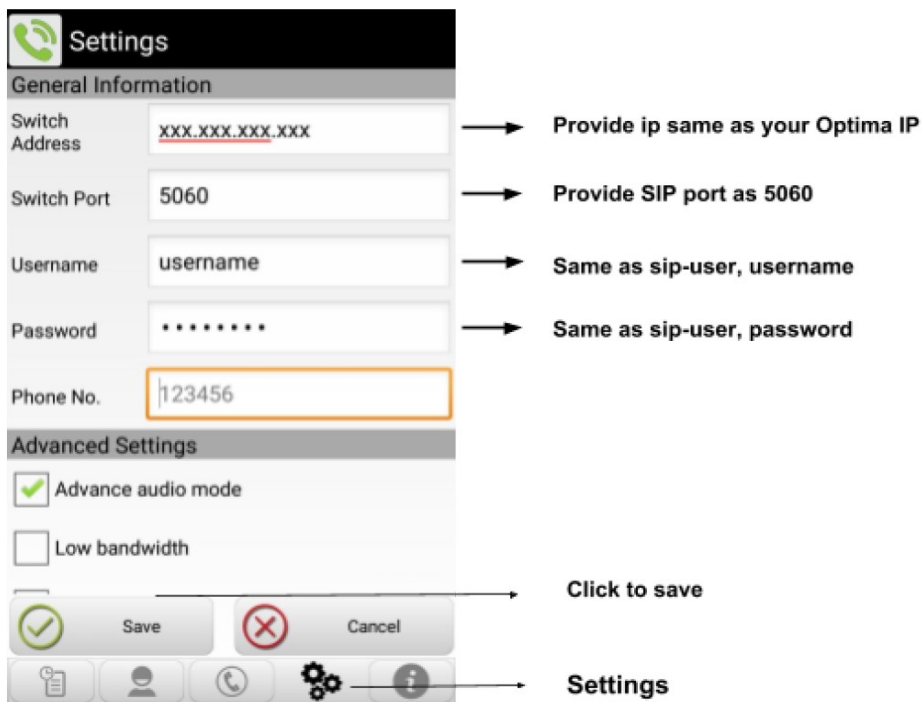
You can simply add your Ip in Sip Firewall option and test after that

Server Time (UTC): August 20, 2022 02:53:58 PM

Cloudfonica Call Filter

Disclaimer: Our Solution does not provide any guarantee that sim will not be blocked. It will extend sim life. All Rules are not for all countries. It varies country to country, operator to operator.

- Now download the android application **OptimaFree Dialer** from google play store , Open **OptimaFree Dialer** dialer, go to settings and provide info like below to test calls:



Cloudfonica Call Filter

Disclaimer: Our Solution does not provide any guarantee that sim will not be blocked. It will extend sim life. All Rules are not for all countries. It varies country to country, operator to operator.

- When Dialer got registered, then you may test call according to your dial plan in the panel. You may require VPN or Byte Plex if your ISP blocks SIP Protocol.

9. Carrier:

In carrier section you can add carrier IP and limit.

Server Time (UTC): August 20, 2022 02:58:09 PM

Option for carriers to check CDR value without giving access to Main Server

List Of Carrier

View Inactive

10 records per page

Search:

S/L	Name	Host IP	Call Limit	Codec	Action
No matching records found					

Showing 0 to 0 of 0 entries (filtered from 4 total entries)

First Previous Next Last

Add New

- Name: carrier
- Host IP: x.x.x.x
- Call Limit: 16
- Allowed Codecs: g729.20, g723.30
- Save Now

There's an option for giving carriers access to check ONLY CDR data without giving access to **MAIN SERVER**. For that click on Manage Carrier Portal

Server Time (UTC): August 20, 2022 03:04:36 PM

Link You need to share with carrier for checking CDR

Carrier Login

Login URL: http://x.x.x.x/web/

10 records per page

Search:

S/L	User Name	Origination	Actions
1	carrier 1	1111	+ -

Showing 1 to 1 of 1 entries

First Previous 1 Next Last

Add New

- Username
- Password
- Carrier
- Save Now

Cloudfonica Call Filter

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10. TIPS AND TRICKS FOR CLOUDFONICA CALL FILTER:

- A. You should not turn off your GSM Gateway at your idle time and we recommend not to send calls after 12 PM as well start sending calls after 8AM as this is a human behavior, usually human sleeps at night.
- B. If your sims blocks or for new sim, try to change IMEI before inserting new sims as well use fixed IMEI.
- C. Do not send USSD code repeated times in a day, we recommend 3 times a day.
- D. We recommend not to recharge your account more than once in a day and use different types of recharging method.
- E. We recommend to keep your Base Station fixed from 12 AM to 9 AM
- F. We recommend to use retail traffic provider as well as you should not change traffic provider very soon.
- G. To get satisfactory minutes and less sim blocking, use 64 sims to run 16 concurrent calls or use 128 sims to run 32 concurrent calls. Primary idea is you need 4 times more sims, than your concurrent calls.
- H. Cloudfonica Call Filter application needs to build its database slowly with repeatedly dialed phone numbers. 1st day, allow 2 numbers per port for new sims, then increase it slowly after 15 mins interval and at best allow 15 or 20 numbers per port for the whole day, then 2nd day increase 25 or 30. Keep increasing per port limit until you find out what is the best average range on your network operator. You need to run Cloudfonica Call Filter for 4 days minimum to analyze the numbers and build our database with those numbers

11. Call Filtering Hierarchy

★ Call Filter hierarchy for new number in bucket:

- **Whitelist** (if the number or Caller ID is Whitelisted, even though same number/ID was in the blacklist, it will ignore and pass the call)
- **Blacklist** (if the number or Caller ID is blacklisted and not in the whitelist, calls will not pass)
- **Call Gap** (within the Call Gap period calls will not pass, call Gap counts after a number hits the specific prefix for the port, after the Call Gap time, call will pass)
- **Number length [ignore/ block]** (will check the number length perimeter, will pass if number came with exact digits, otherwise will block)
- **Bucket size limit** (will check Bucket is full or not, if full, call will not pass, if there is available bucket space, then callee number or Caller ID will be stored in bucket and call will pass)

Cloudfonica Call Filter

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★ Call Filter hierarchy for existing number in bucket:

- **Whitelist** (if the number or Caller ID is Whitelisted, even though same number/ID was in the blacklist, it will ignore and pass the call)
- **Blacklist** (if the number or Caller ID is blacklisted and not in the whitelist, calls will not pass)
- **Call Gap** (within the Call Gap period calls will not pass, call Gap counts after a number hits the specific prefix for the port)
- **Number cloud Length [ignore/ block]** (if the number/ Caller ID is already in the bucket list, will ignore number current number length restriction)
- **Bucket size limit** (call will hit the specific port now as the number is already in the bucket list)

Cloudfonica Call Filter

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