

# Route testing dialer



User manual

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## Route testing dialer

5gVision Route testing dialer is part of the 5gVision suite of products for monitoring, alerting, packet sniffing, rate management, routing, and billing that share a common web interface: quick, intuitive, and flexible.

#### Overview

The best way to start with the dialer and understand its main concepts is to view this sales presentation:

5gVision Route testing dialer

This module lets you test routes via dialing certain auto-generated or manually entered numbers through a particular vendor you need to test. The dialer can be located right on your 5gVision server, or on a separate hosting server. The dialer calls your switch(es) and your switch routes calls to the vendor being tested based on the called number prefix.

Request time,	Comment	Test result	ASR %	FAS %	Number count	Simult calls	Max TTC	Max Dur	Caller ID	Vendor prefix	Area	Min numb length	FAS for short nbs	Numbers
2015-12-12 07:58:29		FAILED	0		9	5	60	60	\$55500000K	02506		11	0	Manual:79557459542,7960246
2015-12-12 07:58:04		FAILED	0		9	5	60	60	401000000	001006		11	0	Manual: PHARALMHING, THEODIN
2015-12-12 07:57:41		FAILED	0		9	5	60	60	21000000000	00506		11	0	Manual:78657458640,7860219
2015-12-12 07:56:05		OK	57		14	5	60	60	794000000000	02506		11	0	Manual:79581391233.7964829
2015-12-12 07:53:20		FAILED	0		26	5	60	60	7960060000	001804		11	0	Manual: 720824094098, 7777394
2015-12-12 07:26:49		FAILED	0		26	5	60	60	7800000000	00730		11	0	Manual:770574049986,7777254
2015-12-12 07:25:41		FAILED	0		26	5	60	60	794000000000	024/18		11	0	Manual:77179103198,1795896
2015-12-11 19:11:55		In progress, 81% done	54	8	16	5	60	60	41300000000	0016710		11	1	Manual: a lot lot lot lot 1, a lot A
2015-12-11 17:26:22		FAILED	69	14	29	5	60	60	41 moosoom	40140		11	1	Manual:000577012905.000532
2015-12-11 16:16:43		FAILED	72	11	18	5	60	60	41000000000	40140		11	1	Manual: 95389 115688, 9906397
2015-12-11 16:15:20		FAILED	60	15	20	5	60	60	4100000000	0013601		11	1	Manual: #Energodone, Pecelona
2015-12-11 15:59:31		In progress, 86% done	92	92	14	3	60	60	31280000000	03447	20070	13	0	Manual: Michael Science (Michael
2015-12-11 15:10:57		FAILED	37	37	19	3	60	60	32200000000	92758	99679	13	0	Manual: Montal 2012 Montal
2015-12-11 15:09:27		FAILED	93	93	15	3	60	60	3320000000	0016167	08673	13	0	Manual: PHOTO AND 12113, PHOTOP
2015-12-11 15:09:05		FAILED	10		21	5	60	60	41 20000000	034/18		11	1	Manual:77778504621,7715826
2015-12-11 15:07:49		In progress, 21% done	100	17	29	5	60	60	41000000000	36497		11	1	Manual:77194903254,7771433
2015-12-11 15:07:01		FAILED	0		32	5	60	60	4100000000	0014/18		11	1	Manual:771121611114,1771204
2015-12-11 15:03:07		FAILED	7	7	15	3	60	60	31280000000	03373	\$9679	13	0	Manual: ##67126812713, #86716
2015-12-11 14:46:02		FAILED	64	14	14	7	60	60	79030000000	02584		12	0	Manual:965043680681.965043
2015-12-11 14:45:47		FAILED	36	9	11	7	60	60	70820800800	02184		12	0	Manual: Manual: Manual Company
2015-12-11 14:45:12		FAILED	33	17	12	7	60	60	7 Million Concerns	02384		12	0	Manual: M3402*6734,963400*

To access the dialer, please create a Route testing dialer screen (see Screen types for information on how to add it).

The 5gVision interface principles are described in a separate manual: User interface

You may download a PDF version of the manual here:

User interface

If you are new to 5gVision, we would recommend to go through at least the begiing of the Interface manual first.

#### Making requests

To make a request, click Create new request.

ime, Comment	Test ASR FA	S Number Simult Max Max Caller	r ID Vendor Area Min nur
Switch to send calls to:	MVTS II (88.238.458.424) -	Search interval, hours:	4
Audio file to play:	Silence (120sec)	Search offset, hours:	24
Call recording options:	.mp3 without early media	Minimum numbers length:	11
Codec to use for origination:	G711 A-law	Flag FAS for short numbers:	
Simultaneous test calls:	2	CDRs/random/wrong pattern:	3/1/2 Generate
Max time till connect:	60		CDRs 🗱
Max connected call duration:	60		79026053736
Caller ID pattern (X - random):	1800XXXXXXX 🔍		79518060720
Vendor technical prefix:	02646 🔍	Numbers:	71041771438
Numbers Area code:	79 💙		7METOHELINE
Min duration in CDRs, sec:	2		795729795
Max duration in CDRs, sec:	3600	Comment:	
	J		

A new window will be opened with the following parameters:

- Switch to send calls to from the drop-down menu, select one of your switches for the test calls to be routed to.
- Audio file to play from the drop-down menu, choose the audio file to be played to a called party during each call in this test batch.
- Call recording options from the drop-down menu, select the call recording options .wav or .mp3, with or without early media. With the
  current implementation in case early media is chosen, the system starts playing and recording audio file right at the first ring (not after
  connect).
- Used codec from the drop-down menu, select the codec used for the test calls.
- Simultaneous test calls the number of simultaneous calls to test numbers in a batch. The hardcoded maximum is set to 20 as a precaution so that the user does not overload the system by accidentally typing in a large number.
- Max time till connect maximum waiting time till the call connects, in sec. When the waiting time is exceeded, the call gets disconnected.
- Max connected call duration a maximum duration of a connected call, in sec.
- Caller ID pattern (X random) caller ID (where X will be replaced by a number randomly generated for each call in the test batch, Y by any number from 1 to 9). Clicking the blue arrow will open a Value selection window which can be used to quickly select a pre-saved number.
- Vendor technical prefix technical prefix added to each called number. Clicking the blue arrow will open a Value selection window
  which can be used to quickly select a pre-saved number.
- Numbers Area prefix area prefix used to generate called numbers in the specified area (see CDRs/random/wrong below). Clicking
  the blue arrow will open a Value selection window which can be used to quickly select a pre-saved number.
- Min duration in CDRs, sec when the system selects destination numbers from CDRs, it will only consider CDRs with the duration over the minimum. Valid only if the CDR count in the CDRs/random/wrong pattern parameter is greater than 0.
- Max duration in CDRs, sec when the system selects destination numbers from CDRs, it will only consider CDRs with the duration less than the maximum. Valid only if the CDR count in the CDRs/random/wrong parameter is greater than 0.
- Search interval, hours when the system selects destination numbers from CDRs, it will consider the CDRs within the latest N hours. Maximum interval - 24 hours.
- Search offset, hours an offset for searching CDRs for destination numbers. For example, if the current time is 10:00, the search interval is 4 hours and the offset is 1 hour, the system will search through CDRs within the 5:00 8:59 period.
- Minimum numbers length a minimum valid numbers length for tested prefix(es). Needed to generate random (equal to this length) and wrong(less than this length) numbers. Does not affect numbers extracted from CDRs.
- Flag FAS for short numbers the checkbox that controls whether the system will treat connects to wrong numbers shorter than the Minimum numbers length as FAS-terminated attempts.
- CDRs/random/wrong pattern define the count of real numbers (taken from CDRs)/random numbers/intentionally wrong numbers to be tested. Click Generate to fill out the Numbers field according to the defined pattern.
- Numbers list of destination numbers to be tested. May be entered manually or generated automatically with the help of the CDRs/random/wrong field. Numbers may be delimited through commas. When composing the number lists, any symbols other than a figure, a comma, \* or # sings are discarded.
- Comment comment for the test batch.

To exclude calls to the same number within a certain time period (48 hours by default), the following methods will be employed:

- duplicate numbers are excluded when CDR-based numbers arrive from the DB,
- if the numbers window had some numbers, and another batch of numbers was requested the new numbers will be unique,
- any numbers that had alerting (rings) in the last 48 hours in the dialer CDRs will be excluded when fetching new numbers from the switch CDRs.

To start the tests, please click OK.

#### Route testing menu

The menu on top of the Route testing screen consists of the Table menu, the interval selector, the row count selector and the Create new request button.

∕∕ Ro	ute testing dialer						
5		Ih 24h 7d 30d 180d All	GO Rows:	516 Fet	ch: 10	0 300 1	k 10k
	Create new request	Info					
	Request time	Comment	Tost	ASP	EAS	Number	Simul
	cut cut	Comment	rest	ASK %	FA5 %	count	calls

The interval selector allows you to limit the number of test batches fetched from the DB to those belonging to the latest period only (1h, 24h, 7d, etc), while the row count selector limits them to only the top X rows.

To apply the settings of the selectors, click GO. The Rows label shows the current number of rows displayed with filters applied.

### Testing results table

The test results are displayed in a table. All 5gVision table capabilities are supported (like Filtering, Column selection, Column resizing, Export and more).

Create new request	Info				-									
Request time,	Comment	Test	ASR	FAS	Number	Simult	Max	Мах	Caller ID V	endor	Area	Min numb	FAS for	Number
GMT		FAILED	%	%	count	calls	TTC	Dur	I I I I I I I I I I I I I I I I I I I	orefix	code	length 12	short nbs	Manual
2015-12-09 14:54:26		FAILED	93	20	30	5	60	60	At DECEMPORE OF	0104		11	1	Manual Serie Officiant Series
2015-12-09 14:48:06		OK	45	20	22	5	60	60	443000000000000000000000000000000000000	2908		11	1	Manual Off Million Last Off 10
2015-12-09 14:22:43		In progress 88% done	57	36	16	7	60	6	Mieurin dieler	ODDe	1	12	0	Manual 200 Kol 141 Manual
2015-12-09 14:18:14		FAILED	100	100	1	3	60		> view in dialer	CDRS	365	13	0	Manual:0522204-011
2015-12-09 14:09:52		FAILED	57	57	7	3	60	1	Edit cell (or di	bl-click)	345	13	0	Manual: Manual
2015-12-09 13:43:49		FAILED	0		14	3	60	1	Edit selected	rows	100.4	13	0	Manual Photos The Long The
2015-12-09 13:41:59		FAILED	4	4	23	3	60	1	Add to filter		204	13	0	Manual:994513440587.99451
2015-12-09 13:41:33		FAILED	77	77	13	3	60		Clear filter		223	13	0	Manual:22775414680.229753
2015-12-09 13:41:23		95% done; FAILED	47	47	20	7	60		Export to Ever	-		12	0	Manual:3011140000,30112211
2015-12-09 13:38:41		FAILED	75	75	12	3	60				204	13	0	Manual:22505857168.125858
2015-12-09 13:38:32		FAILED	67	67	12	3	60		Select cell col	ntents	204	13	0	Manual: 22000007 Http://www.
2015-12-09 13:38:04		FAILED	0		12	3	60		Select col cor	itents	004	13	0	Manual:22808887168,228088
2015-12-09 13:36:23		FAILED	0		12	3	60		Value: 20000	000000	294	13	0	Manual:22505857468,025855
2015-12-09 13:35:27		FAILED	0		23	3	60	2	Remove all hi	ghlights	994	13	0	Manual:994512113961.094813
2015-12-09 13:34:41		FAILED	0		14	3	60			@2	004	13	0	Manual: Manual Manual Manual
2015-12-09 13:32:53		FAILED	0		12	3	60			@5	994	13	0	Manual:994508150653,99450
2015-12-09 13:32:07		FAILED	0		12	3	60			<u>w</u>	22%	13	0	Manual: 22505 Poet 15, 225 Poe
2015-12-09 13:29:49		FAILED	0		8	5	60	60	49100000000	2541		11	0	Manual: Hold In Figure (Held In
2015-12-09 13:26:02		FAILED	0		17	3	60	60	3520000000000	2944	99458	13	0	Manual:994585994585,99458
2015-12-09 13:07:46		In progress, 93% done	75	7	30	5	60	60	differences of	2009		11	0	Manual:000550153222.00055

The key column here is **Test result** which contains the status of the test (% done, OK or FAILED). The test is considered a success if the ASR value was above a preset threshold and there were no calls with FAS. Otherwise it is a failed test. ASR value and a percent of FAS-terminated attempts are displayed in the ASR % and FAS % columns respectively.

The system considers an attempt to be FAS-terminated in the following cases:

- The call connected to an incorrect number.
- The call disconnected as the maximum duration time was exceeded.

If you invoke the pop-up menu on the desired test record and select **View in dialer CDRs** (or simply double-click the row), the system will open a new CDR window filtered to display only the calls pertaining to the test.

T         E         C         H         C														
		=47315												
CDR ID		Request ID	Call dur.	Disconnect code	Disconnect initiator	PDD	ттс	TTR	SRC number	Vendor prefix	DST number	DST number type	Audio play	Audio get file
399965	2015-12-09 14:25:52	47315	21.2	16 - ALLOTTE	SRC (send_b)	5.6	44.0		79894400894	62760	24992598722	Manual	play/pause, ctrl-click to jump	201512
399964	2015-12-09 14:25:10	47315	26.4	16 - NORMAL	DST (recv_bye	4.2	29.4		19859429807	02790	2010/01/11/091	Manual	play/pause, ctrl-click to jump	201512
399963	2015-12-09 14:24:56	47315	51.3	16 - ALLOTTE	SRC (send_b)	5.7	14.1		TREASTON	COPICS	24982108508	Manual	•	201512
399962	2015-12-09 14:24:53	47315	36.9	16 - ALLOTTE	SRC (send_b)	5.0	28.1		View in :	Traffic lo	as HHHH	Manual	play/pause, ctrl-click to jump	201512
399960	2015-12-09 14:24:52	47315	39.1	16 - ALLOTTE	SRC (send_b)	5.4	25.6		View in (	all flow	BORT	Manual	play/pause, ctrl-click to jump	201512
399961	2015-12-09 14:24:52	47315		16 - ALLOTTE	SRC (send_ca	2.7		62.6		itor.	18235	Manual		
399959	2015-12-09 14:24:47	47315		16 - ALLOTTE	SRC (send_ca	2.9		62.8		iller	03094	Manual		
399958	2015-12-09 14:24:46	47315	19.4	16 - NORMAL	DST (recv_bye	8.8	36.0		🥁 Clear filt	er	121 149	Manual		201512
399957	2015-12-09 14:24:12	47315	9.3	16 - NORMAL	DST (recv_bye	5.2	15.3		Export to	D Excel	49483	Manual	play/pause, ctrl-click to jump	201512
399955	2015-12-09 14:23:49	47315	50.1	16 - ALLOTTE	SRC (send_b)	6.1	15.3		Select c	ell conte	ents 4253	Manual	play/pause, ctrl-click to jump	201512
399956	2015-12-09 14:23:49	47315		16 - ALLOTTE	SRC (send_ca	5.3		65.4	Select c	ol conte	nts 1100	Manual		
399954	2015-12-09 14:23:48	47315	54.9	16 - ALLOTTE	SRC (send_b)	4.9	9.5			blight	29541	Manual		201512
399951	2015-12-09 14:23:46	47315		16 - ALLOTTE	SRC (send_ca	2.9		62.6	Auto hig	migni	544055	Manual		
399952	2015-12-09 14:23:46	47315		16 - ALLOTTE	SRC (send_ca	2.7		62.6	🞇 Remove	all high	lights	Manual		
399953	2015-12-09 14:23:46	47315		16 - ALLOTTE	SRC (send_ca	2.7		62.6		1 @	2 00585	Manual		
399950	2015-12-09 14:23:42	47315	45.0	16 - NORMAL	DST (recv_bye	5.7	14.1			4 @	5 86840	Manual	play/pause, ctrl-click to jump	201512

Apart from usual CDR parameters, this window contains the **Audio get file** column hosting a link to the recorded call and **Audio play** where you can playback the recording directly in the browser (if call recording was enabled during request creation).

It is also possible to view Signaling logs and Call flow diagram (see Signaling collector) of the test call from this window by selecting the options **View in Traffic logs** and **View in Call flow** respectively in the pop-up menu.

#### Value selection window

The number selection window is a handy tool to enter a pre-saved value into any of the **Options** menu fields (for instance - **Create new** request in Dialer). It contains a table with the list of numbers that may be routinely used in your system.

Vendor technical prefix:		<b>X</b>	୯ 🕂 🏹 🗶	Save	Cancel	
Numbers Area code:						
Min duration in CDRs, sec:		<b>V</b>	Saved string	Global	Description	Last use edited
Max duration in CDRs, sec:	0			Yes	Click Add to save a string for future use.	
	1		1800XXXXXXX	Yes	Coller pattern	3

To add a new number, press the green + in the toolbar. A new row will be added to the table, where you can specify the number, description, and set the **Global** flag. If the number is flagged global, it will be available to all users of the system; otherwise it is available to the current user only. When done, click **Save**. You may also edit and delete rows from the table.