

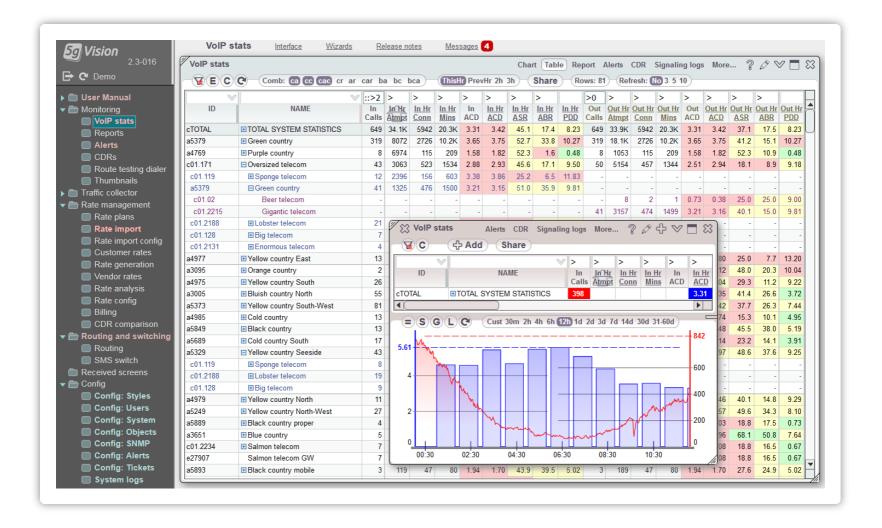


VoIP/SMS monitoring suite

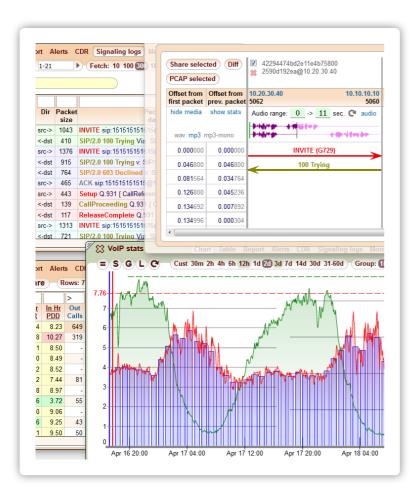
Break through your data



A typical screen



Why do you need 5gVision?



5gVision is a visual VoIP/SMS/SNMP monitoring and log collection suite suggesting the following features to a telecom operator:

- Very quick, multi-parameter CHARTS for any object in a VoIP/SMS switch or an SNMP-monitored device, or for any object combination (Customer -Area - Vendor - Disconnect code, etc.).
- TABLES with on-the-fly filtering and sorting to monitor current statistics.
- Quick and easy-to-use hourly, daily and weekly REPORTS.
- A flexible ALERTING module with notifications delivered to the web, email, or over SMS.
- A convenient CDR and Disconnect code viewer.
- SRC/DST numbers stats to identify fraud and unwanted traffic.
- Traffic log collector / sniffer with Call/SMS flows.
- Media collector and player.
- Automatic Route testing dialer.

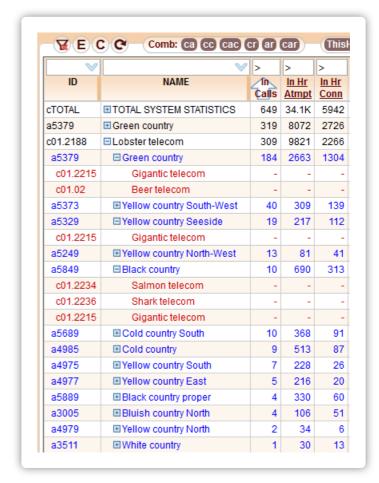
5g Vision

All's well that's monitored well

5gVision monitors the following objects of a switch, as well as their combinations:

- Customers and Vendors
- DST and SRC Areas
- Customers => Areas or Areas => Vendors
- Customers => Areas => Vendors
- Disconnect codes
- Customers => Areas => Disconnect codes
- Products or Rate plans
- Customers => Areas => Products
- Equipment, Trunks, or IPs
- Switch nodes
- SRC/DST numbers
- SNMP stats

Some switches may have additional objects.





I monitor, therefore I am

5qVision calculates every parameter possible, and a couple of impossible ones:

- Current calls
- Current connected calls
- Attempts per hour
- Connected calls per hour
 ABR
- Minutes per hour
- Current capacity

- ACD
- PSC
- ASR
- NER
- CPS

- PDD, TTR, TTC
- % of certain disc. codes
- Number of hunts
- % of LNP/MNP
- Media parameters
- % of transcoding

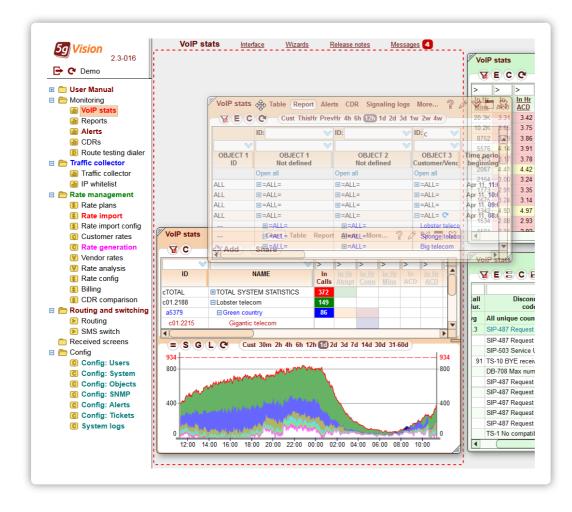
- Cost per hour
- Price per hour
- Profit per hour
- Profit per minute
- Profit per call
- Current balance

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ID	NAME	(Calls	In Hr Atmpt	In Hr Conn	In Hr Mins	In ACD	In Hr ACD	In PSC1	In ASR	In Hr ASR	In ABR	In Hr ABR	In 487	In Hr PDD	In Hr Price	In Hr Cost	In Hr Profit,\$	Out Calls	Out Hr Atmpt	Out Hr Conn	Out Hr Mins	Out ACD	Out H ACD
cTOTAL	⊞ TOTAL SYSTEM STATISTICS	649	34.1K	5942	20.3K	3.31	3.42	20.6	46.5	45.1	15.4	17.4	50.0	8.23	2861.78	1255.29	1606.50	649	33.9K	5942	20.3K	3.31	3.42
a5379	⊕ Green country	319	8072	2726	10.2K	3.65	3.75	18.4	54.4	52.7	33.4	33.8	42.3	10.27	1476.52	511.11	965.41	319	18.1K	2726	10.2K	3.65	3.75
c01.2188	■ Lobster telecom	309	9821	2266	8752	3.79	3.86	16.3	52.7	52.9	22.7	23.1	45.1	8.50	1266.81	501.21	765.61	-	-	-	-	1.71	
e20877	Lobster telecom GW2	189	6202	1427	5576	4.14	3.91	12.4	53.8	52.2	24.2	23.0	45.0	8.49	809.52	324.44	485.07	-	-	-	-	-	
e20879	Lobster telecom GW1	120	3619	839	3175	3.17	3.78	23.6	50.9	54.1	20.3	23.2	45.3	8.52	457.30	176.76	280.54	-	-	-	-	-	
a5373		81	1194	468	2067	4.41	4.42	18.1	40.0	43.6	38.0	39.2	53.9	7.44	286.14	206.65	79.48	81	1782	468	2067	4.41	4.42
c01.119	■ Sponge telecom	58	3728	665	2154	3.00	3.24	17.1	34.5	37.8	12.8	17.8	63.5	8.97	172.28	215.37	-43.09	-	-	-	-	-	
a3005	⊞ Bluish country North	55	1216	530	1773	2.91	3.35	21.5	49.4	46.3	45.8	43.6	46.1	3.72	121.44	1.41	120.03	55	1996	530	1773	2.91	3.38
c01.112	⊞ Huge telecom	48	3822	534	1675	3.24	3.14	19.5	24.0	31.3	3.0	14.0	75.1	9.06	137.55	120.08	17.47	-	-	-	-	-	
a5329		43	556	270	1342	4.93	4.97	16.8	47.3	51.4	45.7	48.6	48.7	9.25	313.07	134.19	178.88	43	719	270	1342	4.93	4.97
c01.171	Oversized telecom	43	3063	523	1534	2.88	2.93	29.3	55.1	45.6	28.5	17.1	34.7	9.50	241.67	76.51	165.15	50	5154	457	1344	2.51	2.94
g3155	■ Oversized telecom group	43	3035	515	1501	2.84	2.92	29.6	54.9	45.4	28.5	17.0	34.8	9.51	236.64	74.99	161.65	-	-	-	-	-	

Find a parameter we don't monitor, and we'll add it.



Tastes differ



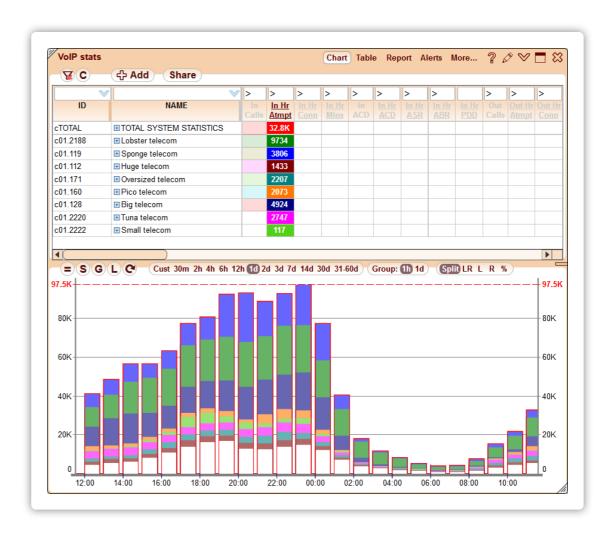
You may easily customize 5gVision look and feel:

- Modular, fully customizable menu and screen design.
- Menu items and screen modules are drag-anddroppable.
- From 1 to 16 different modules (blocks) per screen – ideal for large NOC screens.
- Chose your interface style from a list of predefined ones.
- Make adjustments to existing styles and design your own styles.
- Adjustable colors.

What you chart is what you get

Charts:

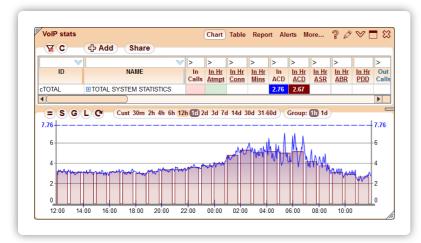
- Add/remove charts with ease through a Legend table.
- Different types of statistics combined on the same chart.
- Lines and bars.
- Zoom and custom intervals.
- Stack charts.
- Comparison charts.
- Auto-reload every minute.





A silver line above steel bars





5gVision gathers 3 types of statistical information:

- concurrent (eg: Active calls), polled every minute and shown as lines on charts,
- per-window (eg: ACD), calculated over a window of recent calls every minute and shown as lines,
- per-hour (eg: Minutes per hour), shown as bars.

Some parameters can be **only concurrent**, like Active calls, others make sense only if they are **calculated over a period of time**, like Call attempts, Minutes, or Profit.

The first example illustrates that even though there is a direct correlation between concurrent calls (red line) and per-hour attempts (green bars), these parameters can never be compared directly (note left and right axes).

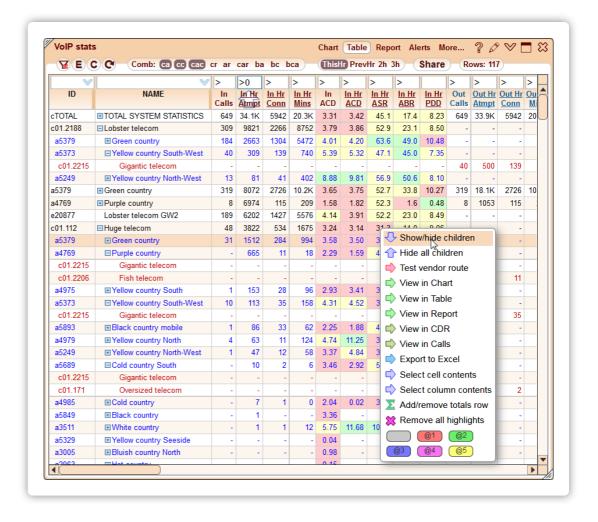
Most quality parameters in 5gVision, however, have both **per-window** and **per-hour** representations. The second chart shows **ACD** as a line and per-hour bars.



A table to save your time

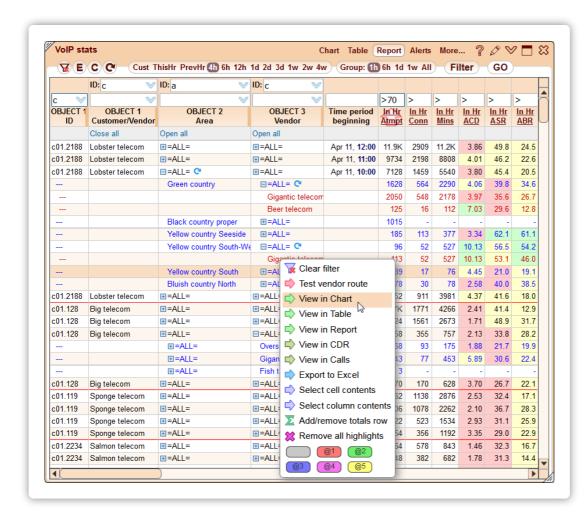
Tables:

- Ideal for viewing current stats for a lot of objects at once.
- Very quick and flexible filtering and sorting.
- Parent-child relationships (Customers => Areas => Vendors, etc.).
- Direct links to other modules.
- Sharing data via public links.





The report takes it all



Reports:

- Any statistical and financial parameters for periods from 1 hour to 1 month fetched in seconds.
- Parent-child relationships make it easy to drill down to the required level.
- Grouping by 1 hour, 1 day, 1 week.
- Flexible sorting and filtering.
- Double-clicking any cell will open a chart.

In monitoring we trust

Thumbnails:

- Monitor a lot of different objects/parameters as a collection of chart blocks.
- Change chart options individually or for the whole screen.
- Re-arrange or re-size chart blocks with a mouse drag.
- Maximize any chart to see more details.
- Ideal for large NOC screens.

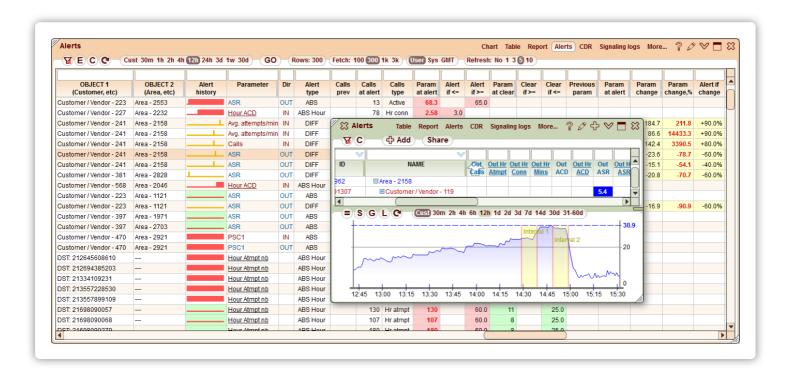


Wake me up when September ends

Alerts:

- An extremely **flexible** alerting system.
- Alerts on any object or any parameter.
- Absolute or differential alerts.

- Custom intervals and combined alerts.
- Delivered via Web, Email, SMS or Push notifications.
- Schedules, email templates, user, and object groups to control alert delivery.





Monitoring is believing

Alerts are conveniently shown in charts.



Concurrent or per-window alerts, lines:

- the red area shows the interval from the tentative alert raise till sending the raise notification, this interval is called the assurance interval,
- the green area shows the interval from the tentative alert clear till sending the clear notification.



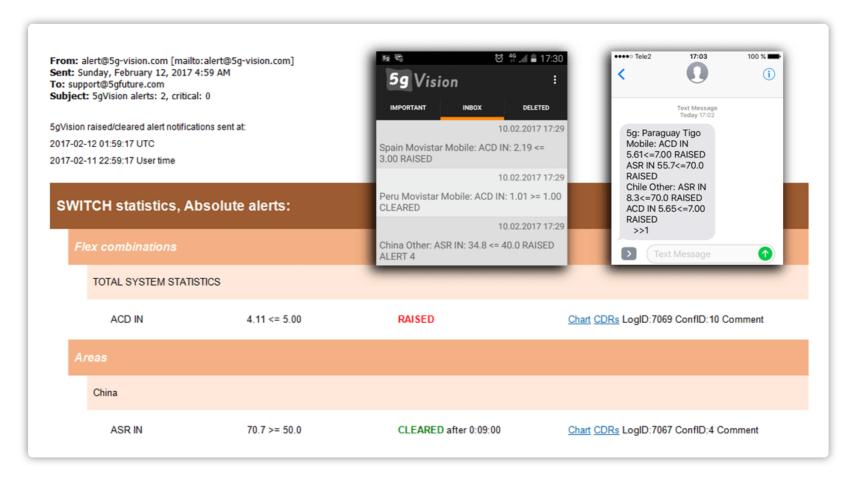
Per-hour alerts, bars:

- the red bar indicates the hour for which the alert was raised,
- the green bar shows the hour in which the alert was cleared.



A midsummer night's dream

Every alert that was raised/cleared can be sent to certain users' emails or cell phones via SMS or push notifications.



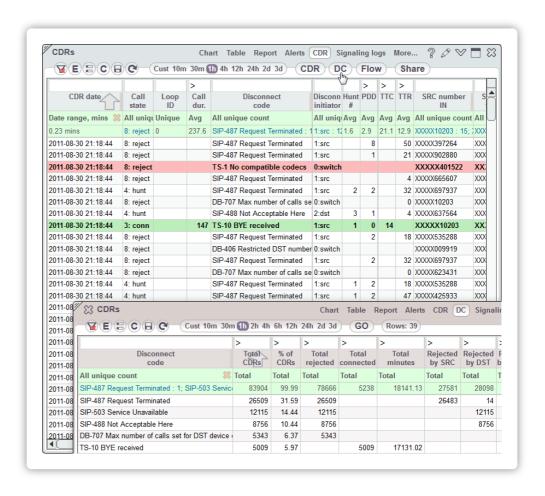


All records are equal,

but some records are more equal than others.

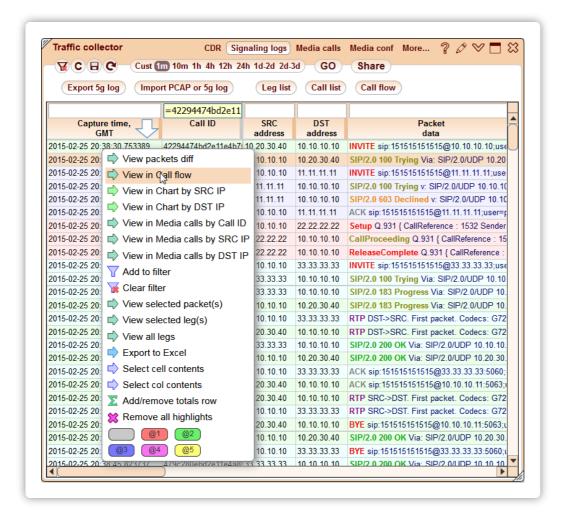
CDR viewer:

- Works with replicated CDRs, or directly with CDRs in your switch/billing DB.
- Very quick requests.
- On the fly filtering and sorting.
- Convenient interval picker.
- Adjustable field order.
- Export to excel/csv.
- Rowhighlight.
- Disconnect code report.
- Direct links to charts/reports for objects.
- Sharing data via public links.





Signaling logs tell no lies



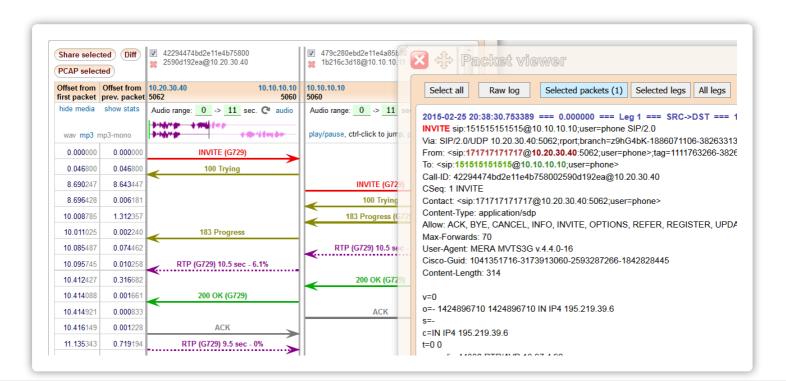
Signaling logs:

- Sniffing VoIP/SMS signaling packets in real time.
- SIP, H.323 and SMPP support.
- Automatic call/SMS leg matching.
- Export to PCAP.
- Import from PCAP.
- View of individual packets and whole Call/SMS flows.
- Listening to media right in Call flows.
- Sharing traffic logs via public links.

A call flow is better than none

Call/SMS flows:

- Graphical representation of a call/SMS packet exchange.
- View of individual packets, packets of one leg or of all legs of a call/SMS.
- Media stats and playback right in Call flow.
- Hiding unnecessary legs from Call/SMS flow.
- Sharing Call/SMS flows via public links and export to PCAP.



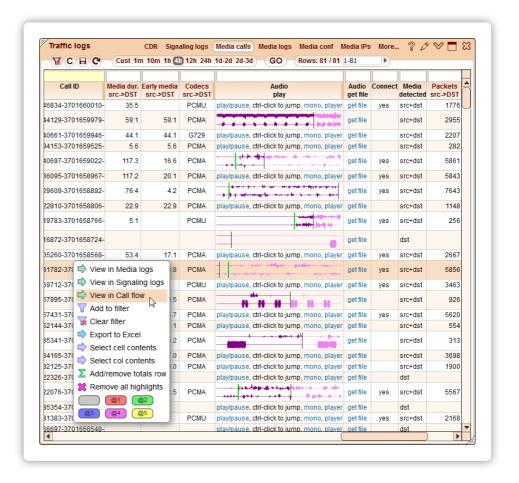


A recorded call

is worth a thousand words.

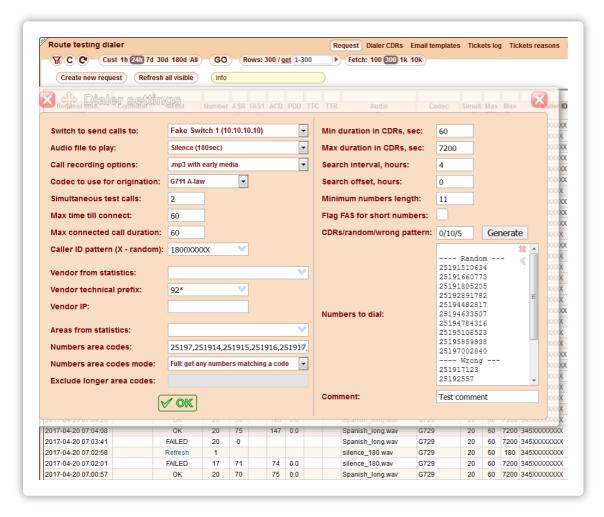
Media logs:

- Sniffing and recording call media passing through your switch.
- Several modes available:
 - full media collection.
 - partial media collection with filtering by media IPs.
 - random and ondemand recording of calls selected by signaling IPs / numbers mask.
- Media playback directly in a browser.
- Downloading audio files.





Try it before you buy it



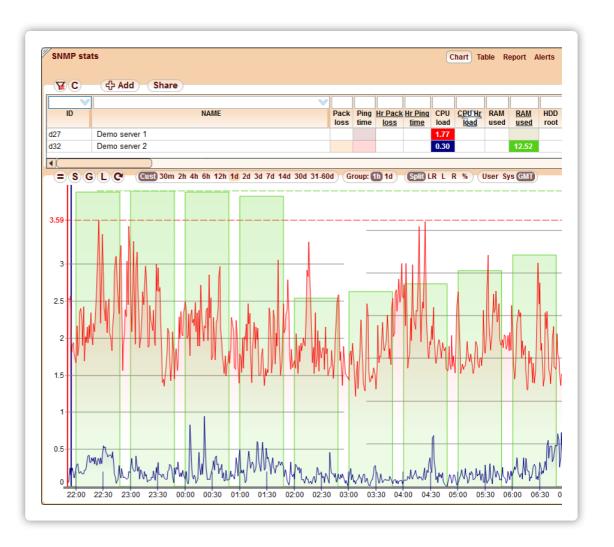
Route testing dialer:

- Automatic dialer to test your vendors routes.
- Initiate route tests right from the Table, Report, or Alert modules.
- FAS detection for routes tested.
- CDRs with full information on tested routes.
- Signaling Call flows for each tested call.
- Recording of media stream with early media.
- Task scheduler to run test requests automatically.
- Sending tickets to vendors.

Monitor far and beyond

SNMP poller:

- Monitor any device, supporting SNMP, and any OID.
- Flexible configuration with device and oid groups.
- Final parameters can be calculated from OID values via formulas.
- Users can add custom chart/table/report columns for new OIDs/parameters.
- SNMP stats can be viewed in combination with switch VolP stats.







Thank you for your time

If you wish to request a fully functional trial Web:

or get more information,

please contact:

Demo: demo.5gfuture.com

Web: www.5gfuture.com

Skype: support_5gfuture

Email: sales-team@5gfuture.com