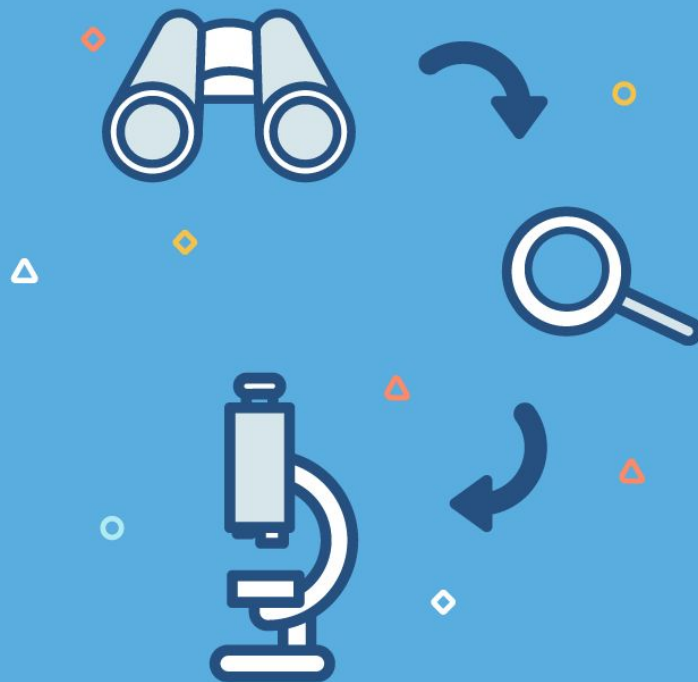


Explore your VoIP network with SIP3

Oleg Agafonov

CTO & co-founder



ABOUT ME



=



@agafox

WITH SOME MORE WORDS

For more than **10 years** I have been designing and building distributed systems as developer and architect.

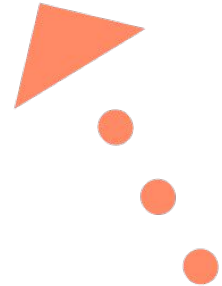
Spent the last **6 years** in various telecom companies.

Always tried to bring **new** and **modern** technologies to telecom.

2019 DEVOPS VISIBILITY REPORT

- Increase Overall Efficiency
- Make Better Business Decisions
- Improve the Quality of Software Releases

84%



PILLARS OF VISIBILITY



BOOSTED MODERN VISIBILITY

Built on the top
of a modern
monitoring toolkit.



elastic



Prometheus



JAEGER

SIP₃

How All Started...



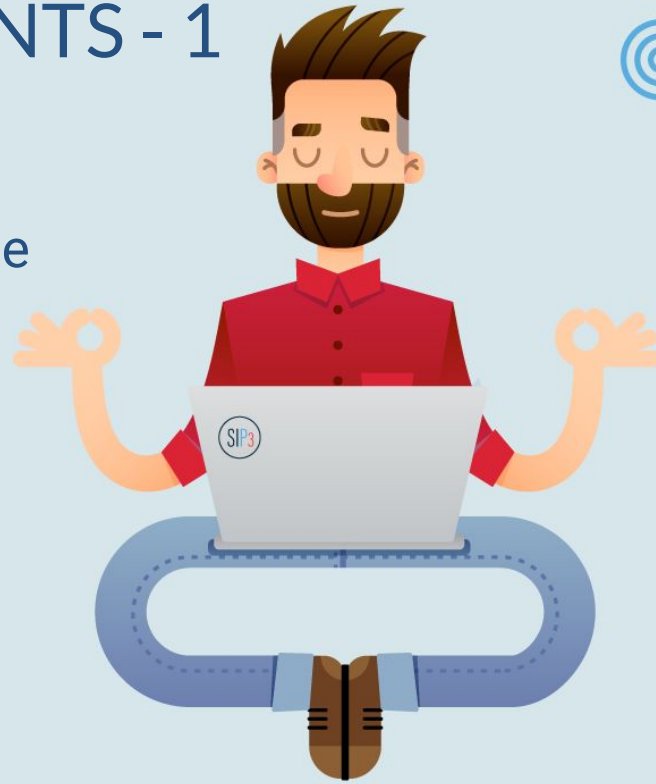
JAWS 3261



SIMPLE REQUIREMENTS - 1

1. Release poor engineers and make support team responsible for troubleshooting...

🎯 free



🕒 free

😊 free

SIMPLE SEARCH

06/08/2019 13:07 - 06/08/2019 15:10 Caller Callee Calls only Go!

Search Results

Search: Copy CSV Print

Date	Method	Caller	Callee	State
2019-08-06 15:03:45.52	INVITE	8788230223376319650	5125698202894567231	Answered: 226 sec
2019-08-06 15:06:23.56	INVITE	2617373882938710061	7987387866580904632	Unauthorized
2019-08-06 15:06:29.40	INVITE	850778894767857987	7739095747516576981	Answered: 33 sec
2019-08-06 15:06:43.06	INVITE	2903747181808439909	7569090230661467587	Failed: 606
2019-08-06 15:07:16.32	INVITE	2903747181808439909	7569090230661467587	Failed: 606
2019-08-06 15:07:50.04	INVITE	2903747181808439909	7569090230661467587	Failed: 606
2019-08-06 15:08:00.49	INVITE	2903747181808439909	7569090230661467587	Answered: 0.106 sec
2019-08-06 15:09:39.41	INVITE	2903747181808439909	7569090230661467587	Failed: 606
2019-08-06 15:09:52.15	INVITE	2903747181808439909	7569090230661467587	Failed: 606

Showing 9 entries

Call Info

204.241.109.197 SoftSwitch

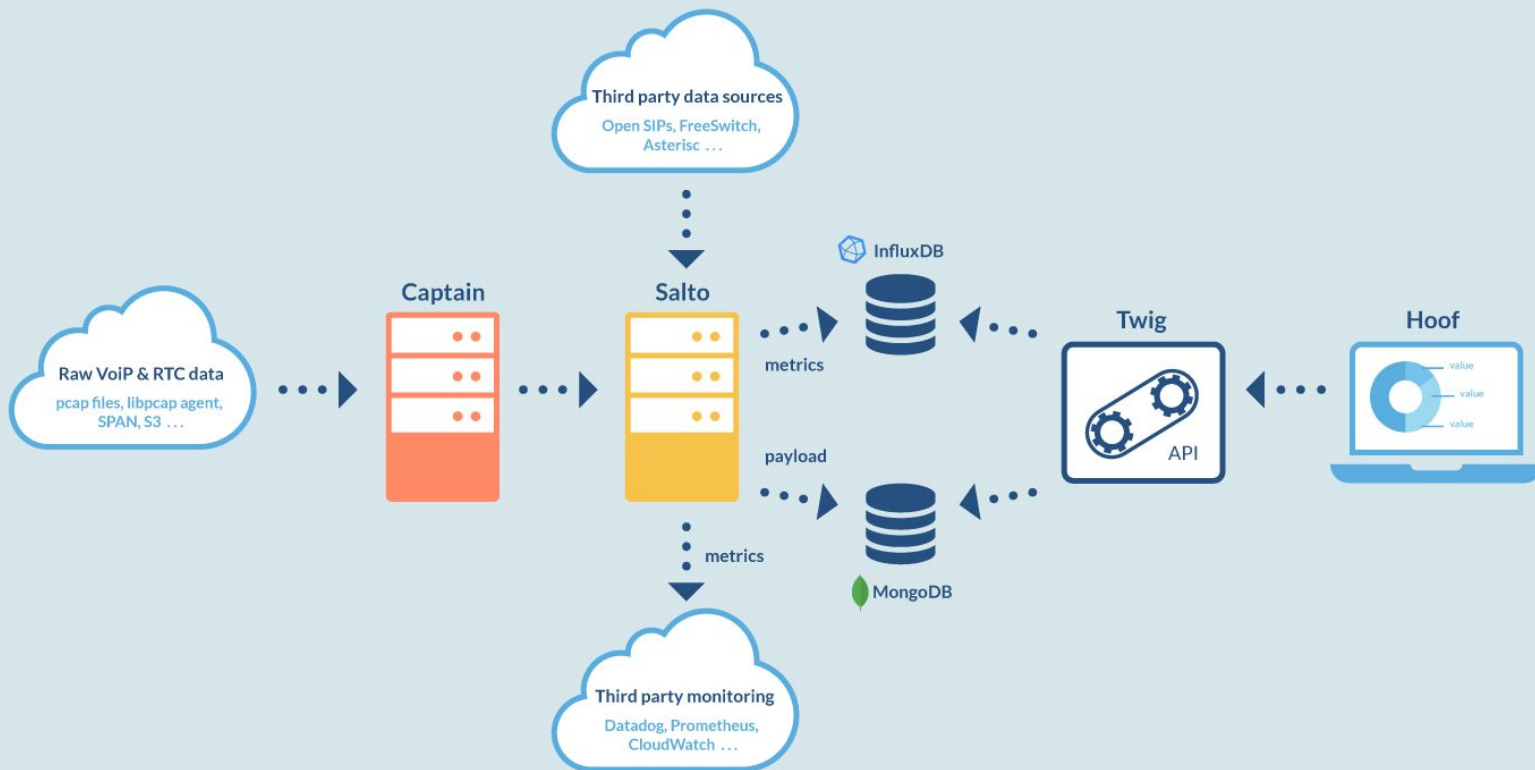
15:09:39.414

1. INVITE
2. 407 Proxy Authentication Required
3. ACK
4. INVITE
5. 606 Not Acceptable
6. ACK

15:09:39.884

Details Save as PNG

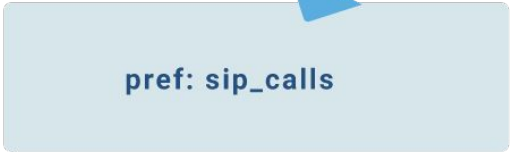
SIP3 ARCHITECTURE DIAGRAM



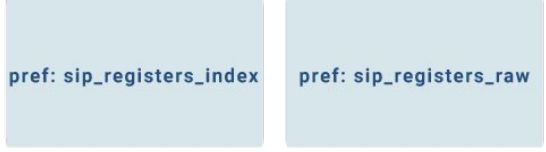
DATABASE PARTITIONING



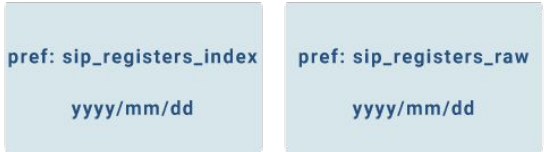
Partitioning
Level 1



Partitioning
Level 2



Partitioning
Level 3



HOSTMAP FEATURE

SIP3

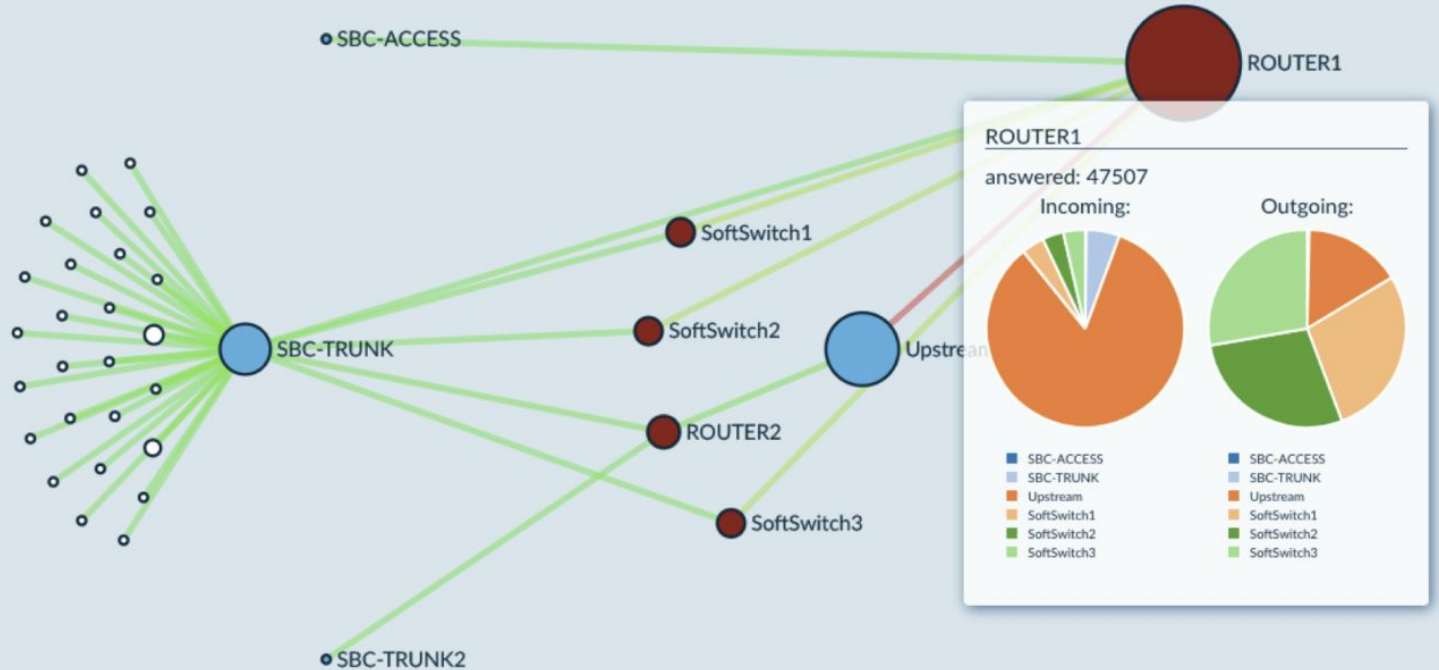
Host Map

04/06/2019 21:45 - 04/06/2019 22:45

answered

hosts:

- name: MY-COMPANY-SBC
sip: [23.08.20.15]
- name: MY-COMPANY-SSW
sip: [192.0.0.1:5060]
- name: MY-TRUNK-CUSTOMER-1
sip: [26.03.19.93/26]



ADVANCED SEARCH

29/01/2019 12:07 - 29/01/2019 13:07 sip.method=REGISTER sip.state=unauthorized sip.caller=1234567891. ip.src_addr=10.154.151.62

Go!

Search Results

Search:

Copy CSV Print

Date	Method	Caller	Callee	State
2019-01-29 12:07:00.05	REGISTER	12345678910	12345678910	Unauthorized
2019-01-29 12:07:00.20	REGISTER	12345678911	12345678911	Unauthorized
2019-01-29 12:07:00.20	REGISTER	12345678912	12345678912	Unauthorized
2019-01-29 12:07:00.20				Unauthorized
2019-01-29 12:07:00.25				Unauthorized
2019-01-29 12:07:00.25				Unauthorized
2019-01-29 12:07:00.25				Unauthorized
2019-01-29 12:07:00.25				Unauthorized
2019-01-29 12:07:00.25				Unauthorized

Call Info

10.154.151.62

SBC-ACCESS

12:07:00.050

1. REGISTER

12:07:00.070

+20 ms

2. 403 Forbidden

Details

Save as PNG

Showing 8 entries

SIMPLE REQUIREMENTS - 2

1. Release poor engineers and make support team responsible for troubleshooting. ✓

2. Release poor support team and make computers responsible for monitoring to prevent troubleshooting.



MONITORING

REGISTERS amount by status ▾



INTEGRATIONS





DEMO

RTCP FOR MEDIA QoS



- Easier than analyzing RTP
- Has all the data required for calculation of media QoS.



- Sometimes there is no RTCP
- It often contains fake data
- In most of the cases to capture RTCP we need to first capture all traffic including RTP

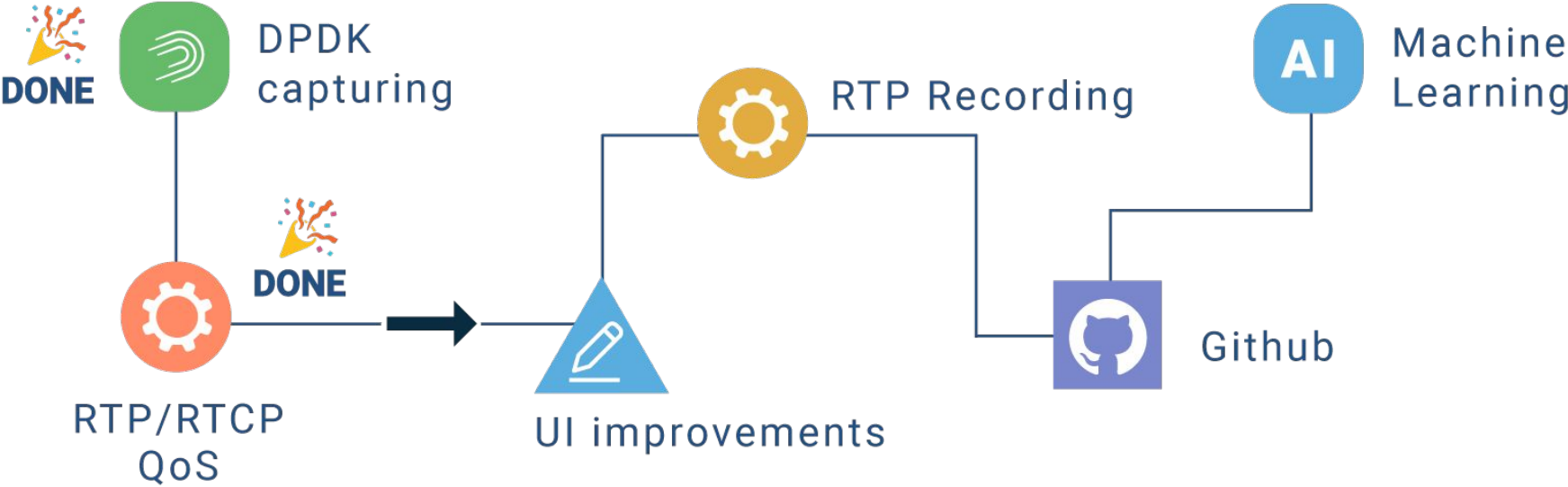
RTP PROCESSING





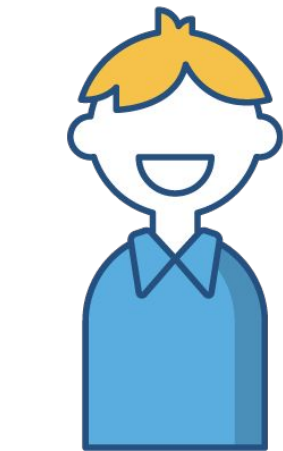
DEMO

ROADMAP



Try SIP3

@agafox
@agaf0x



<https://github.com/sip3io>

[TRY THE LIVE DEMO](#)

<https://github.com/sip3io>



**THANK
YOU!**

www.sip3.io