

# DaSeT/VoSeT

**Alarming tool rel.8**

February 2020

[www.daset.sk](http://www.daset.sk)

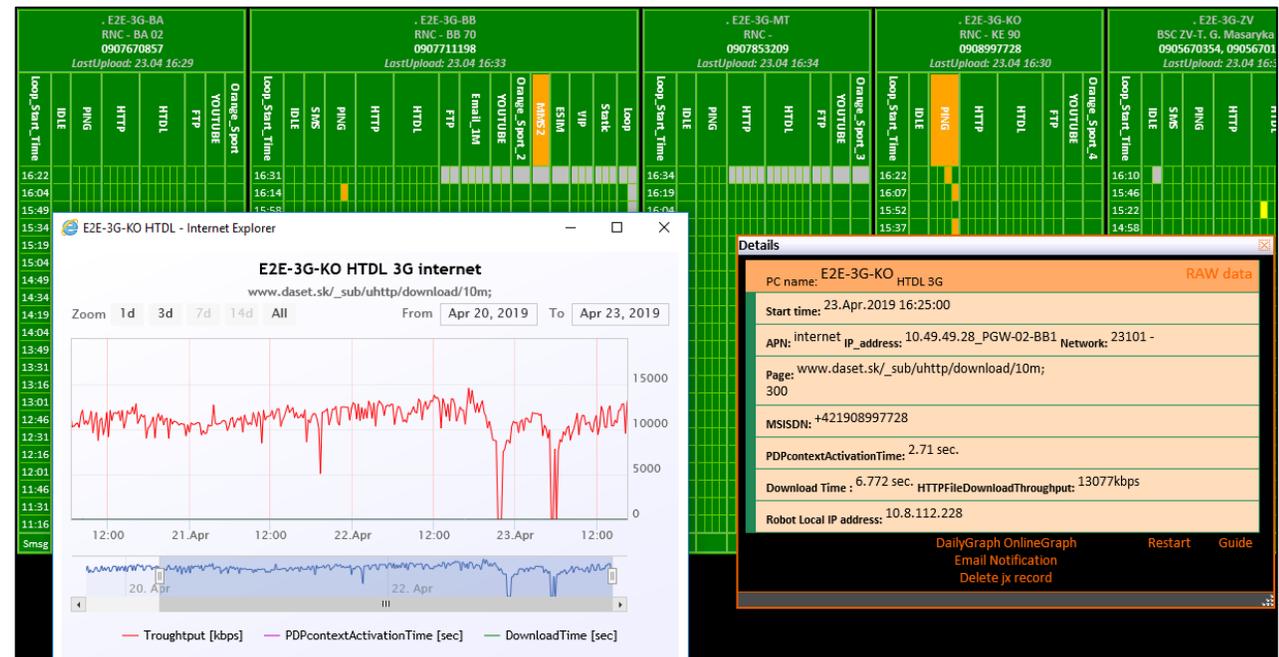
<https://plaza.orange.com/groups/daset-voset-robots>

[miroslav.kutik@orange.com](mailto:miroslav.kutik@orange.com)



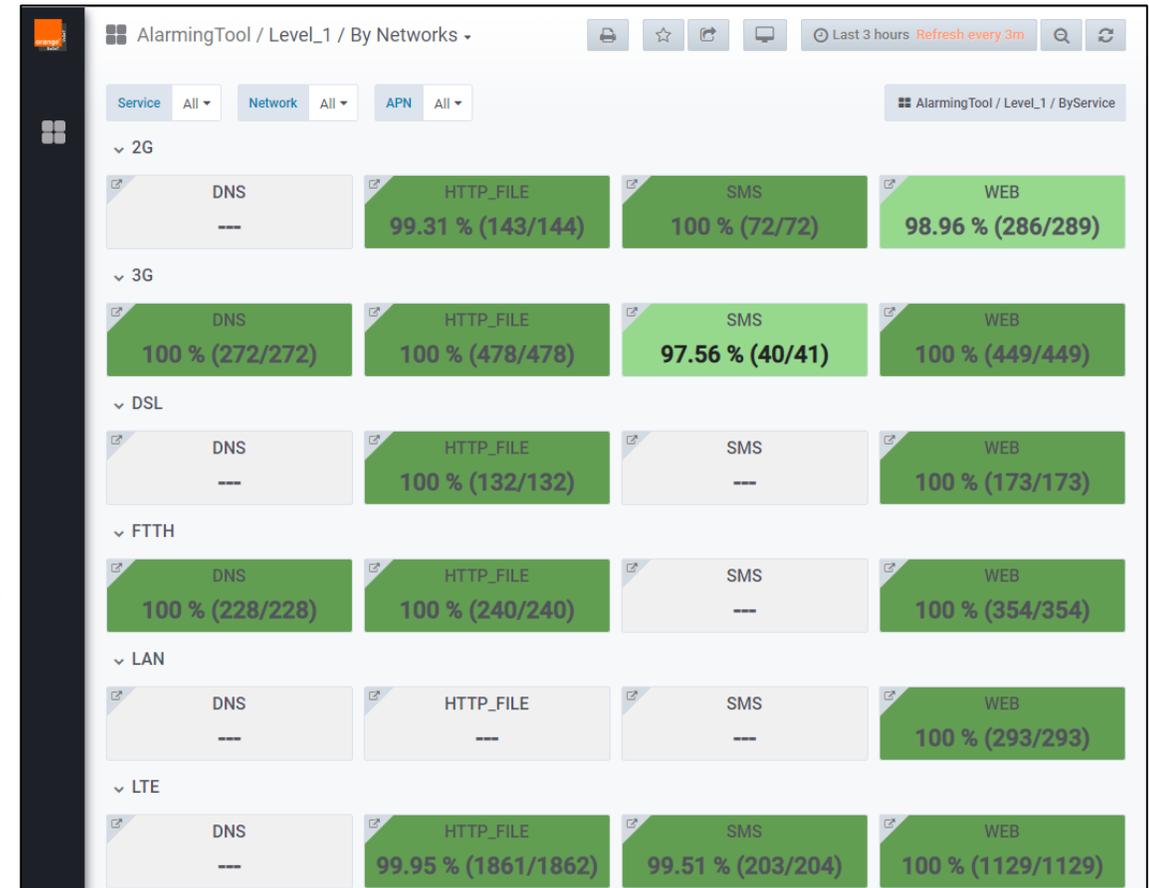
# Alarming Tool vs Remote viewer

- Available through VPN or GIN only, not through public internet e.g. from home
- Each robot is displayed separately with more robots at separate URLs. It means you need to use more URLs if you use more than 4-5 robots in the country. This can be problem for 24/7 supervision purpose if you use more than 8-10 robots with 2 URLs displayed on separate screens.
- Tested services are in columns with colour schema for different results for each robot.
- Details about the test available when you click on the result.
- Graphical presentation of KPIs
- Possibility to export raw data from the central database
- You need to use separate tool Remote viewer Editor to add/remove/modify services tested by DaSeT/VoSeT robots and displayed in the RV.



# Alarming Tool vs Remote viewer

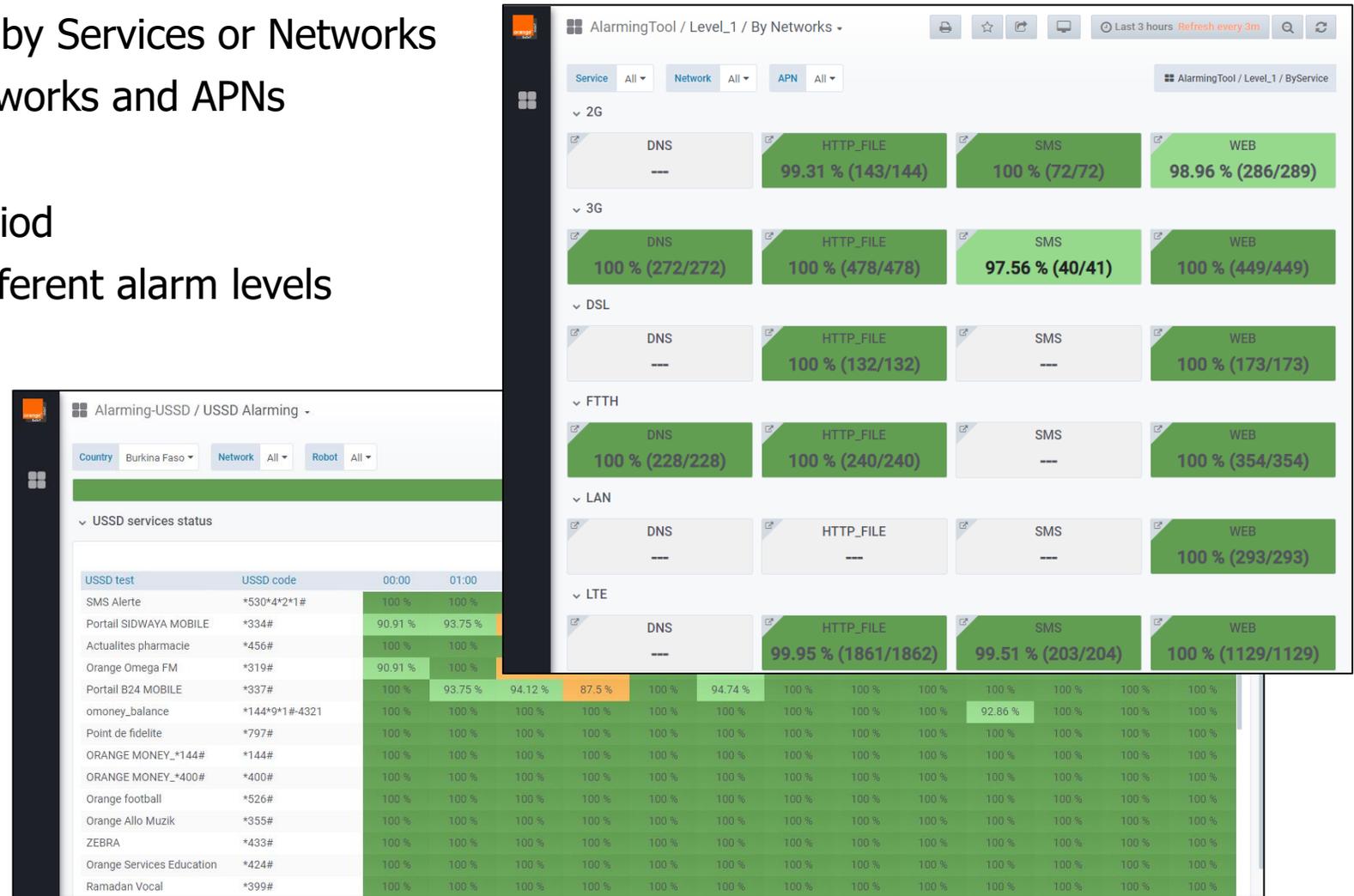
- Available through public internet e.g. with an access from your home
- Secured by SSL certificate
- One screen enough to cover results from all robots
- Easy to check status of specific services like DNS, web pages, etc. after planned works or deployment
- Changed **Service oriented** view on results. Not split in according to robots but according to tested services (HTTP, DNS, FTP, SMS, etc.) or networks (2G/3G/4G/ADSL/FTTH).
- Drill down option from the 1st level/view on status of networks (2G/3G/4G/ADSL/FTTH) and tested services (HTTP, DNS, FTP, SMS, etc.) to details about specific service
- New tests configured on your robots added automatically to the Alarming tool.
- Remote viewer - not stopped to use



# Alarming Tool Data services - level 1

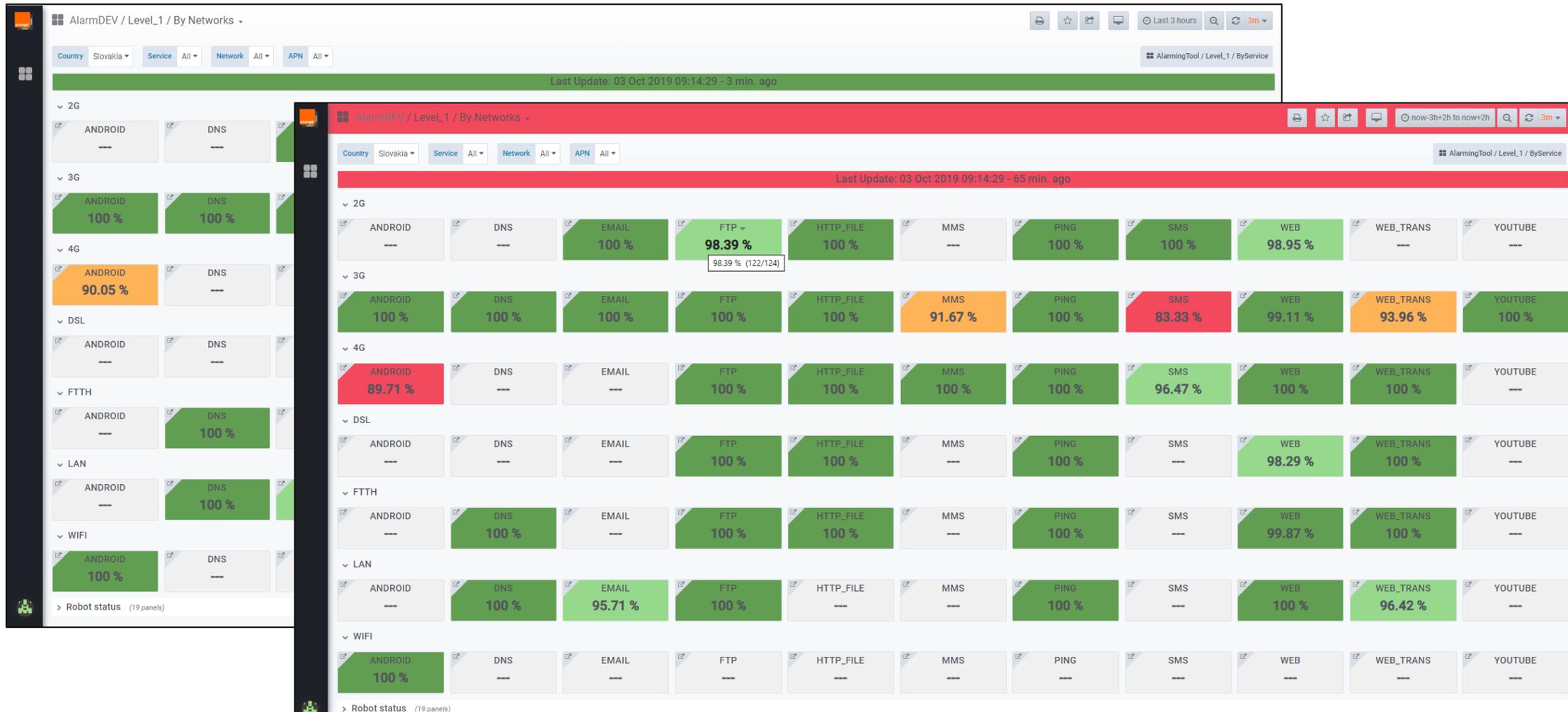
- High-level QoS overview ordered by Services or Networks
- Filter for supervised services, networks and APNs
- Drill down to the 2<sup>nd</sup> level
- Success rate in specified time period
- Customized colour schema for different alarm levels

- **Dark green** >99%
- **Light green** 95-99%
- **Orange** 90-95%
- **Red** <90%
- **Light blue** – Low MOS score or silent calls for voice call or Low credit balance
- **Grey** – service not tested



# Alarming Tool Data services - level 1

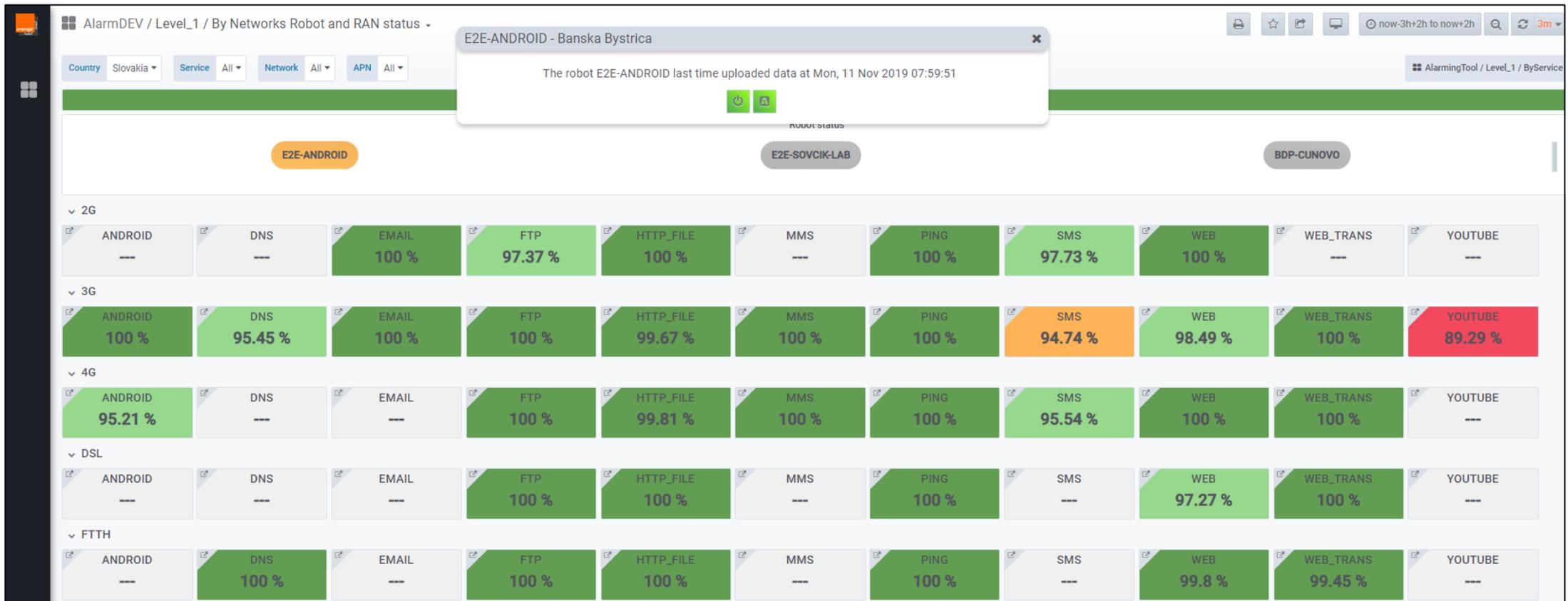
- Panel with the Last update information and RED colour schema in case of outage
- Robot availability status with direct link to test results configured on robots



# Alarming Tool Data services - level 1

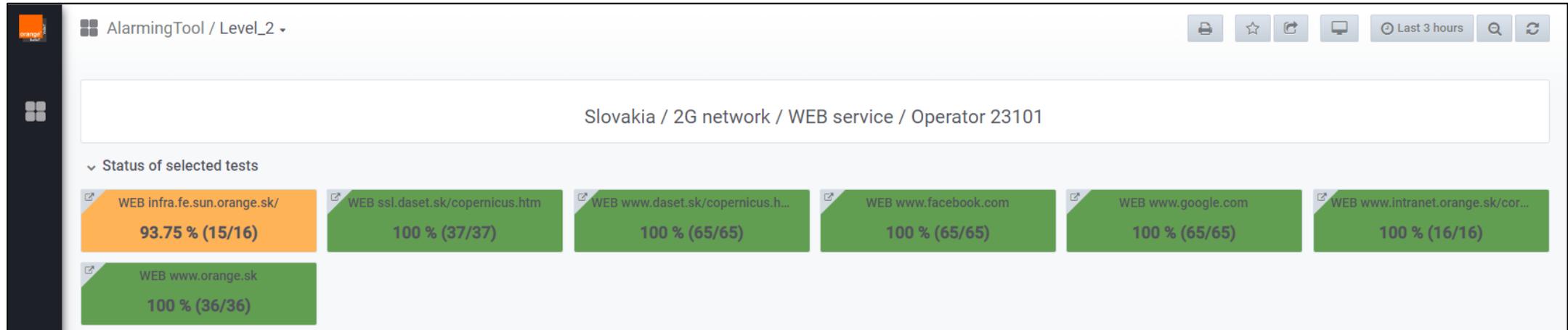
New pop up panel with

- Identification of robot outage
- The issue with SIM card registration
- Low SIM credit balance/data bundle alert



# Alarming Tool Data services - level 2

- Overview of all supervised tests in specific service // *DNS, DL/UL throughput, WEB page availability, etc.*
- Drill down to the 3rd level
- Success rate of each specific test in specified time period
- Customized colour schema for different alarm levels
  - **Dark green** >99%
  - **Light green** 95-99%
  - **Orange** 90-95%
  - **Red** <90%



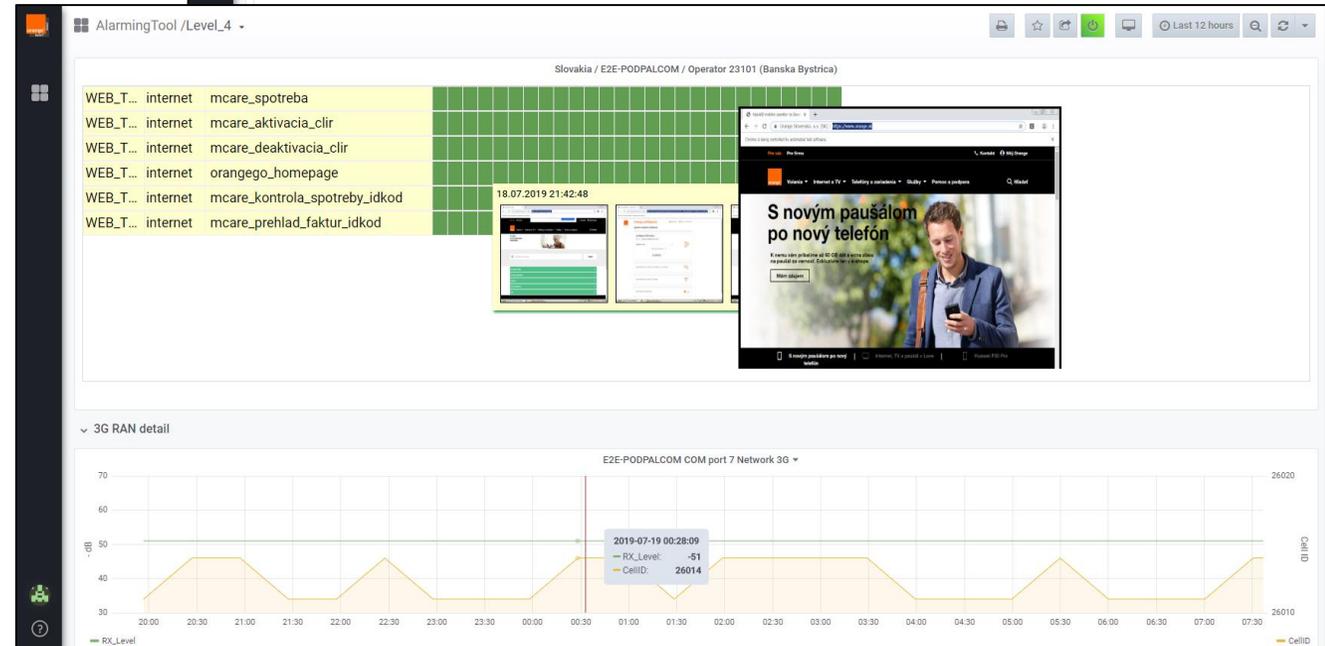
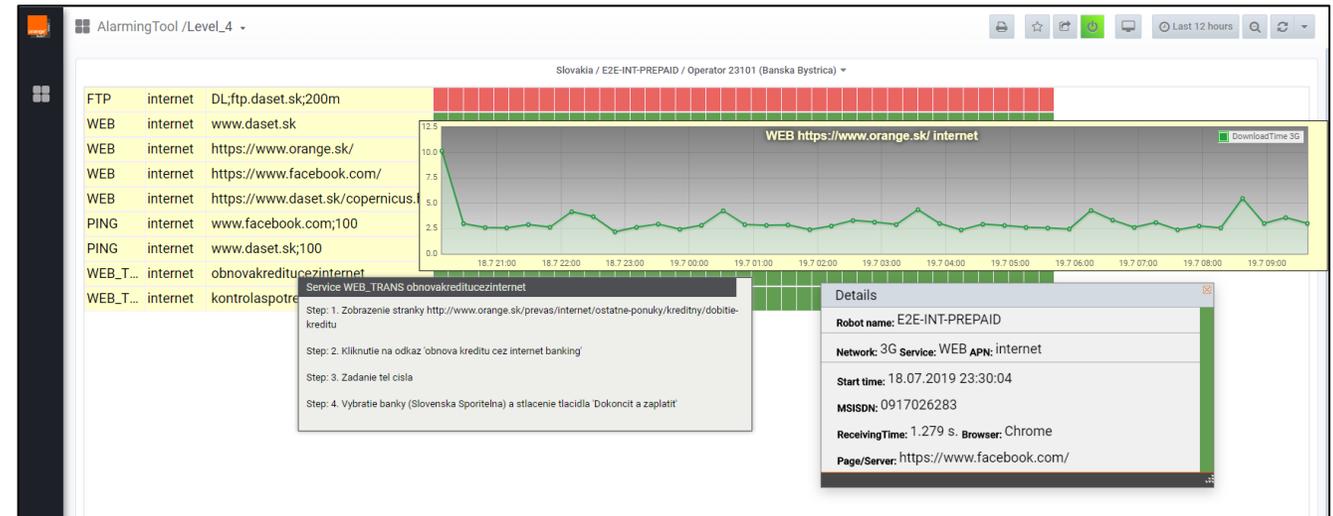
# Alarming Tool Data services - level 3

- Overview of all robots with specific test
- Success rate of each robot in specified time period with progress ⬆ or ⬇
- Customized colour schema for different alarm levels
  - **Dark green** >99%
  - **Light green** 95-99%
  - **Orange** 90-95%
  - **Red** <90%
- Result distribution of all robots
- Error description
- Drill down to the 4th level



# Alarming Tool Data services - level 4

- Overview of all test results on specific robot
- Easy to check if all tested services fail (robot/modem/SIM issue) or just few of them (service issue)
- Details about the test
- Guide for WEB\_TRANS and Android tests with description of steps. Use mouse over name of the service.
- Screenshots for WEB\_TRANS and Android tests for easy identification of an issue. Use CTRL key for Zoom.
- Graphical view of performance when you click on the service (WEB, FTP, etc.)
- Cell ID and RX level



# Alarming Tool Data services - level 4

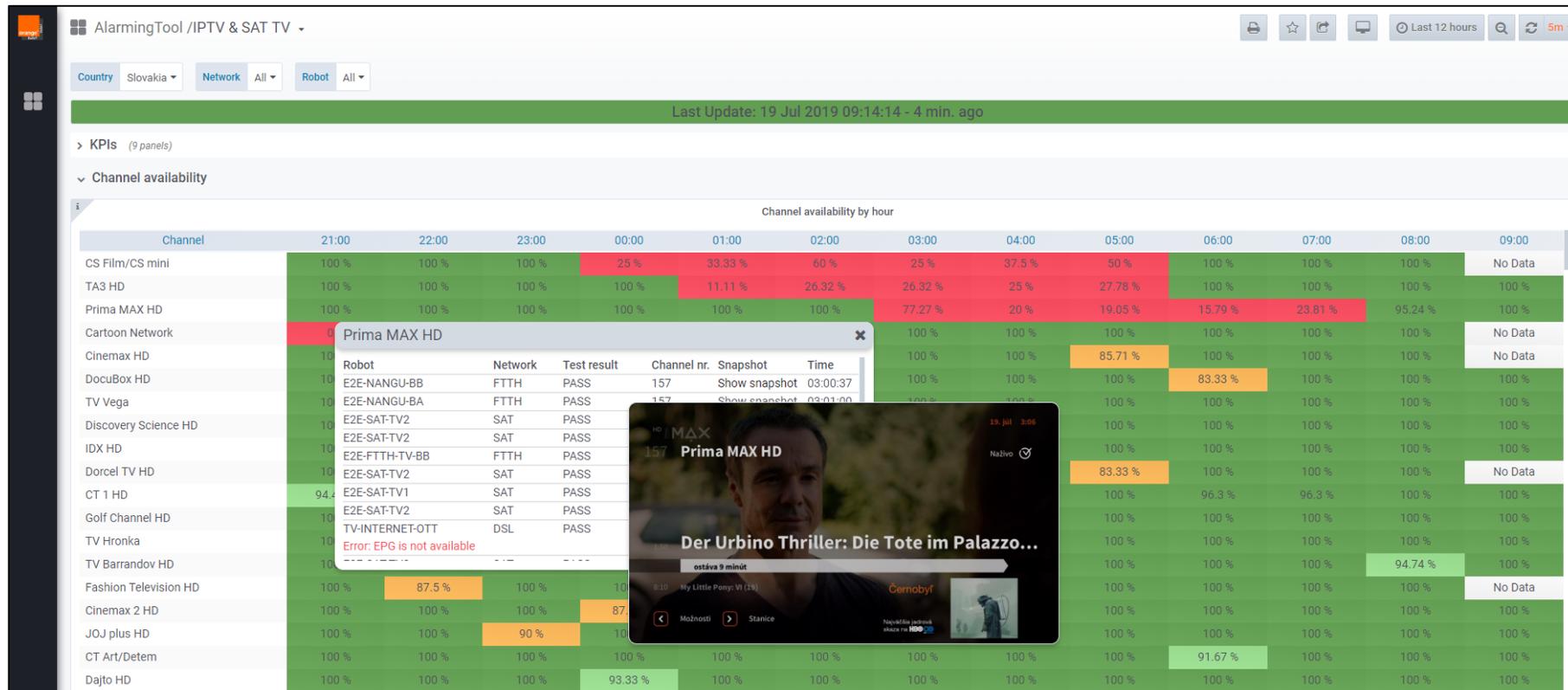
- Possibility to restart robot remotely from the Alarming tool

The screenshot displays the Alarming Tool interface for Level 4. A central dialog box from 'www.daset.sk' asks for confirmation to restart robot E2E-3G-BB?. The background shows a table of data services with columns for protocol, network, and URL. The table is partially obscured by a green grid overlay.

Protocol	Network	URL
HTTP	internet	www.youtube.com
HTTP	cosmo	www.daset.sk/kepler.htm
SMS	-	160
SMS	-	200
FTP	internet	UL;ftp.daset.sk;2M
FTP	internet	DL;ftp.daset.sk;10M
MMS	mms	62kb.mms
EMAIL	internet	0905245686@orangemail.sk;attach_
EMAIL	internet	0905245686@orangemail.sk;attach_
WEB	internet...	www.daset.sk/kepler.htm
WEB	internet	www.daset.sk/kepler.htm
WEB	cosmo	www.daset.sk/kepler.htm
WEB	speed	www.daset.sk/kepler.htm
WEB	jumper	www.daset.sk/kepler.htm
WEB	internet...	www.facebook.com
WEB	internet...	www.facebook.com
WEB	internet	www.facebook.com
WEB	internet...	www.google.com
WEB	internet...	www.google.com
WEB	internet	www.google.com
WEB	internet...	www.orange.sk

# Alarming Tool IPTV and SatTV services

- Quick overview of IPTV/SatTV results
- KPI panel can be reordered in according to TV channels, availability, Zapping time, errors and attempts
- TV channel availability panel is ordered in according to error counting rate combined from supervised period and the last attempts on the top. Pop-up window with details.
- Snapshots from all attempts are available as overview or in full size



# Alarming Tool IPTV and SatTV services

- Error list panel brings error description from each TV channel with snapshot link and customized colour code for easier identification of errors
- Robot status with TV channels success rate progress ⬆ or ⬇

The screenshot displays the Alarming Tool interface for IPTV and SAT TV services. The top navigation bar includes filters for Country (Slovakia), Network (All), and Robot (All). A green banner indicates the last update: 03 Feb 2020 13:40:12 - 2 min. ago.

The main content area is divided into sections: KPIs (9 panels), Channel availability (1 panel), and an expanded Error list. The Error list table contains the following data:

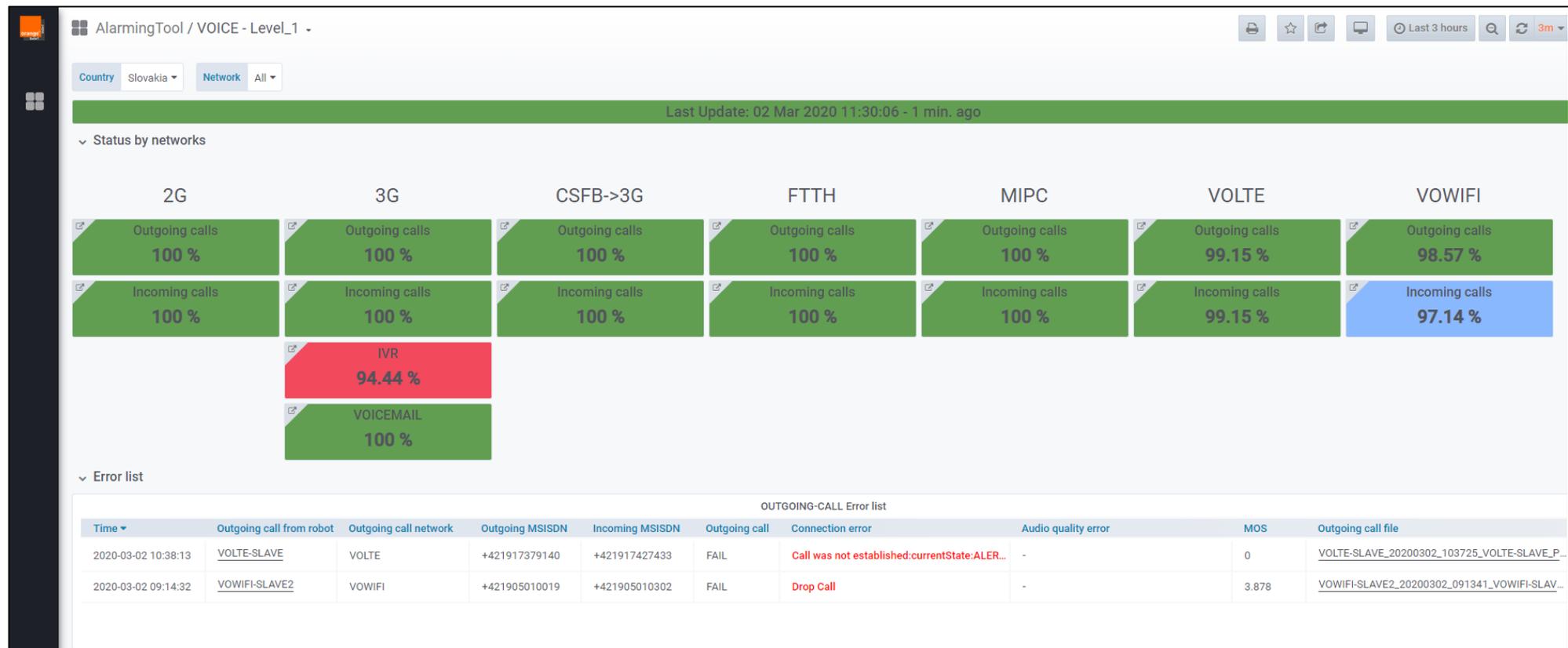
Time	Robot	Databeearer	Channel	Quality	Channel number	Error	Snapshot
2020-02-03 13:39:48	E2E-NANGU-NR	FTTH	Orange Sport 4	HD	197	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_197_20200203_134002797_OK.jpg</a>
2020-02-03 13:39:24	E2E-NANGU-NR	FTTH	Orange Sport 3	HD	196	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_196_20200203_133938796_OK.jpg</a>
2020-02-03 13:39:00	E2E-NANGU-NR	FTTH	Orange Sport 2	HD	195	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_195_20200203_133914882_OK.jpg</a>
2020-02-03 13:37:28	E2E-NANGU-NR	FTTH	Orange Sport 4	HD	197	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_197_20200203_133742733_OK.jpg</a>
2020-02-03 13:37:05	E2E-NANGU-NR	FTTH	Orange Sport 3	HD	196	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_196_20200203_133718971_OK.jpg</a>
2020-02-03 13:36:41	E2E-NANGU-NR	FTTH	Orange Sport 2	HD	195	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_195_20200203_133655121_OK.jpg</a>
2020-02-03 13:35:09	E2E-NANGU-NR	FTTH	Orange Sport 4	HD	197	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_197_20200203_133523130_OK.jpg</a>
2020-02-03 13:34:45	E2E-NANGU-NR	FTTH	Orange Sport 3	HD	196	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_196_20200203_133459194_OK.jpg</a>
2020-02-03 13:34:21	E2E-NANGU-NR	FTTH	Orange Sport 2	HD	195	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_195_20200203_133435219_OK.jpg</a>
2020-02-03 13:32:49	E2E-NANGU-NR	FTTH	Orange Sport 4	HD	197	Audio Silence is detected	<a href="#">E2E-NANGU-NR_channel_197_20200203_133303019_OK.jpg</a>
2020-02-03 13:32:39	E2E-FTTH-NPVR	FTTH	TV Archiv	SD	-	The current snapshot image does not correspond to reference image	<a href="#">E2E-FTTH-NPVR_archiv_20200203_133339583_NOK.jpg</a>

Below the error list, the Robot success rate status is shown for various channels:

- E2E-FTTH-BA2: 99.21 % ▲
- E2E-FTTH-NPVR: 94.92 % ▼
- E2E-NANGU-BA: 98.92 % ▲
- E2E-NANGU-BB: 98.97 % ▲
- E2E-NANGU-NR: 99.84 % ▲
- E2E-SAT-TV1: 99.84 % ▲

# Alarming Tool Voice services – level 1

- Quick overview of Outgoing, Incoming voice calls and Voice services according to the networks
- Error list and Robot availability status
- Drill down option to the 2<sup>nd</sup> level to get more details



# Alarming Tool Voice services – level 1

- Error list with customized colour messages
- Robot availability panel with direct link to status of outgoing and incoming voice calls

Alarming-VOICE / VOICE - Level\_1

Country: Slovakia Network: All

Last Update: 31 Jan 2020 13:25:33 - 7 min. ago

> Status by networks (35 panels)

▼ Error list

OUTGOING-CALL Error list

Time	Outgoing call from robot	Outgoing call network	Outgoing MSISDN	Incoming MSISDN	Outgoing call	Connection error	Audio quality error	MOS	Outgoing call file
2020-01-31 13:12:57	VOLTE-SLAVE3	VOLTE	+421917393748	+421907700082	PASS	-	low MOS value < 2.5	2.196	VOLTE-SLAVE3_20200131_131204_VOLTE-SLAVE...
2020-01-31 13:08:53	BB-VOSET-MASTER	3G	0907700082	0905014529	PASS	-	low MOS value < 2.5	1.876	BB-VOSET-MASTER_20200131_130838_BB-VOSET...
2020-01-31 13:08:33	VOWIFI-SLAVE2	VOWIFI	+421905010019	+421905010302	PASS	-	low MOS value < 2.5	2.003	VOWIFI-SLAVE2_20200131_130744_VOWIFI-SLAV...

INCOMING-CALL Error list

Time	Incoming call to robot	Incoming call network	Incoming MSISDN	Outgoing MSISDN	Incoming call	Connection error	Audio quality error	MOS	Incoming call file
2020-01-31 13:17:20	VOWIFI-MASTER	VOWIFI	+421905010019	+421905010302	PASS	-	low MOS value < 2.5	1.783	VOWIFI-MASTER_20200131_131726_VOWIFI-MAS...
2020-01-31 13:12:21	VOWIFI-MASTER	VOWIFI	+421905010019	+421905010302	PASS	-	low MOS value < 2.5	1.718	VOWIFI-MASTER_20200131_131227_VOWIFI-MAS...
2020-01-31 13:11:39	BB-VOSET-MASTER	3G	0917393748	0907700082	PASS	-	low MOS value < 2.5	1.312	BB-VOSET-MASTER_20200131_131314_BB-VOSET...

IVR Error list

Time	Robot	Network	Operator	MSISDN	IVR number	MOS main menu	MOS sub menu	Result	Error	Audio file main menu	Audio file sub menu
2020-01-31 11:34:31	PREPAID-VOSET	3G	23101	0907443668	444;3	4.022	1.962	FAIL	low MOS for IVRmenu2	PREPAID-VOSET_20200131_113444-ivr-menu1...	PREPAID-VOSET_20200131_113458-ivr-menu2...

▼ Robot availability status

BA-VOSET-MASTER Bratislava 2G/3G Master	BB-VOSET-MASTER Banska Bystrica 2G/3G Master	EZE-112-BA Bratislava	EZE-112-BB Banska Bystrica	EZE-112-KE Kosice	EZE-112-MT Martin	EZE-112-NR Nitra	EZE-112-PO Presov	EZE-112-TN Trencin	EZE-112-TT Trnava	EZE-BA-VOSET Bratislava 2G Slave	EZE-BB-VOSET Banska Bystrica 3G Slave
EZE-KO-VOSET Kosice 3G Slave	EZE-LTE-VOSET1 Banska Bystrica CSFB Master	EZE-LTE-VOSET2 Kosice CSFB Slave	EZE-LTE-VOSET3 Banska Bystrica CSFB Master	EZE-LTE-VOSET4 Trnava CSFB Slave	EZE-MALIMA Banska Bystrica	EZE-MT-VOSET Martin 3G Slave	EZE-NR-VOSET Nitra 2G Slave	EZE-PSTN Banska Bystrica PSTN Slave	EZE-VOIP Banska Bystrica FTTH Master	EZE-VOIP-BA2 Bratislava FTTH Slave	EZE-VOIP-NR Nitra FTTH Slave

# Alarming Tool Voice services – level 2

- List of all robots with Outgoing or Incoming calls with details and audio samples
- Robot location as a Tooltip when mouse is over the robot name or in details
- Error list with audio samples with customized colour messages

AlarmingTool / OUTGOING-CALL Summary Raw

Country: Burkina Faso | Outgoing network: 3G

OUTGOING-CALL Summary 3G

Outgoing call from robot	Network	Incoming call to robot	Network	Last Result	Outgoing SR
VOSET-2G-OBF	3G	OFR-REIMS2	VOIP	10:18:42	96.77 %
VOSET-BURKINA5	3G	VOSET-BURKINA6	3G	10:17:12	100 %
VOSET-3G-OBF	3G	VOSET-COAST25	3G	10:03:15	100 %
VOSET-BURKINA11	3G	VOSET-BURKINA6	3G	10:12:34	100 %
VOSET-BURKINA13	3G	VOSET-BURKINA6	3G	10:09:36	100 %
VOSET-BURKINA2	3G	VOSET-BURKINA6	3G	10:23:25	100 %
VOSET-BURKINA4	3G	VOSET-BURKINA6	3G	10:20:41	100 %
VOSET-BURKINA6	3G	VOSET-BURKINA11	3G	10:10:53	100 %
VOSET-BURKINA6	3G	VOSET-BURKINA13	3G	10:08:10	100 %

Details

Outgoing call from robot & network	VOSET-BURKINA5 (KDG 3G Slave) - 3G
Incoming call to robot & network	VOSET-BURKINA6 (HQ 3G Master) - 3G
Outgoing MSISDN	+22656626464
Incoming MSISDN	0022656626470
Call result	PASS
Audio quality error	silent sample
Audio file	Play sample
MOS Value	0
Post Dial Delay (PDD) (sec)	3.99 s
Connect time (CT) (sec)	4.83 s
Time	2020-03-02 00:54:12

Error list

Time	Outgoing call from robot	Outgoing call network	Outgoing MSISDN	MOS	Outgoing call file
2020-03-02 08:56:53	VOSET-2G-OBF	3G	+22656626475	0	-
2020-03-02 00:54:12	VOSET-BURKINA5	3G	+22656626464	0	VOSET-BURKINA5_20200302_005306_VOSET-BURKINA5_PE...

# Alarming Tool Voice services – level 2

- List of all IVR tests with DTMF codes, details and audio samples
- Error list with audio samples and customized colour messages

AlarmingTool /VOICE-IVR - Level\_2

Country: Moldova Network: 3G

VOICE-IVR Summary 3G

VOICE-IVR Summary

IVR Number and DTMF code	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00
777;4	100 %	100 %	100 %	100 %	100 %	75 %	100 %	100 %	100 %	100 %	100 %	75 %	No Data
100;1	100 %	100 %	100 %	100 %	100 %	66.67 %	100 %	100 %	100 %	100 %	100 %	100 %	No Data
777;1	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	No Data

IVR Number and DTMF code: 777;4

Robot	Network	Test result	IVR MOS main menu	IVR MOS sub menu	Time
VOSET-MOLDOVA2	3G	FAIL	1.037 - Audio file	3.967 - Audio file	07:10:50
			Error: low MOS for IVRmenu1		
VOSET-MOLDOVA2	3G	PASS	3.388 - Audio file	4.006 - Audio file	07:26:22
VOSET-MOLDOVA2	3G	PASS	3.446 - Audio file	3.949 - Audio file	07:41:31
VOSET-MOLDOVA2	3G	PASS	4.065 - Audio file	4.009 - Audio file	07:56:41

Error list

Time	Robot	databearer	Operator	MSISDN	IVR number	MOS main menu	MOS sub menu	Result	Audio file main menu	Audio file sub menu	Error
2019-08-06 07:45:50	VOSET-MOLDOVA2	3G	25901	069251214	100;1	3.545	1.957	FAIL	VOSET-MOLDOVA2_20190806_074556-ivr-menu1.mp3	VOSET-MOLDOVA2_20190806_074610-ivr-menu2.mp3	low MOS for IVRmenu2
2019-08-06 07:10:50	VOSET-MOLDOVA2	3G	25901	069251214	777;4	1.037	3.967	FAIL	VOSET-MOLDOVA2_20190806_071129-ivr-menu1.mp3	VOSET-MOLDOVA2_20190806_071142-ivr-menu2.mp3	low MOS for IVRmenu1
2019-08-06 13:14:21	VOSET-MOLDOVA2	3G	25901	069251214	777;4	3.516	2.384	FAIL	VOSET-MOLDOVA2_20190806_131438-ivr-menu1.mp3	VOSET-MOLDOVA2_20190806_131452-ivr-menu2.mp3	low MOS for IVRmenu2

# Alarming Tool Voice services – level 2

- List of all Voice Mails with details
- Error list with customized colour messages

AlarmingTool / VOICEMAIL - Level\_2

Country: Moldova Network: CSFB->3G

VOICEMAIL Summary CSFB->3G

VOICEMAIL Summary

VMAIL Number	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00
555	100 %	100 %	100 %	100 %	100 %	100 %	90 %	100 %	100 %	100 %	100 %	100 %	100 %

VMAIL Number and DTMF code: 555

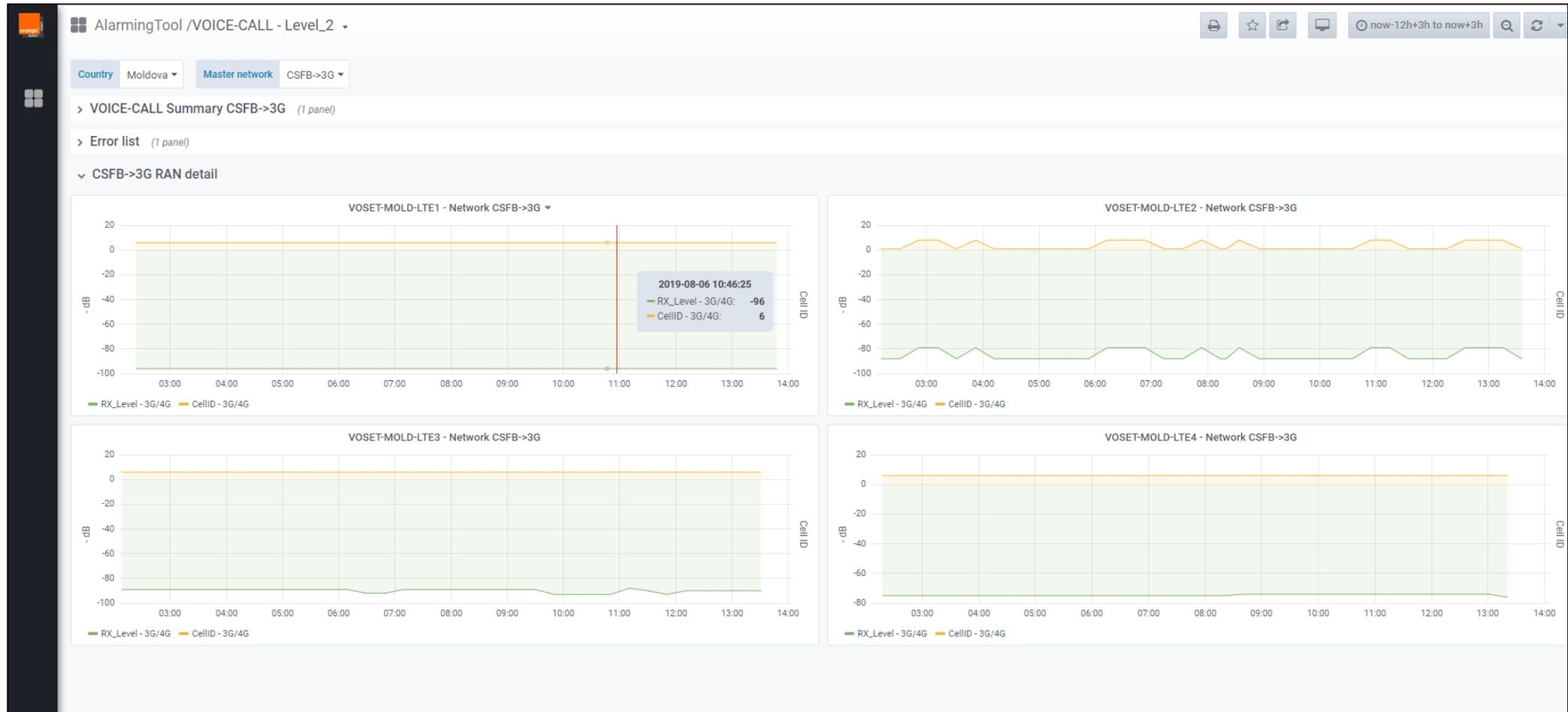
Robot	Network	Test result	Time
VOSET-MOLDOVA2	3G	PASS	08:12:41
VOSET-MOLD-LTE1	CSFB->3G	PASS	08:18:22
VOSET-MOLD-LTE3	CSFB->3G	FAIL	08:19:13
Error: 4.receiving sms NOK timeout			
VOSET-MOLDOVA2	3G	PASS	08:27:50
VOSET-MOLD-LTE1	CSFB->3G	PASS	08:32:10
VOSET-MOLD-LTE3	CSFB->3G	PASS	08:39:15
VOSET-MOLDOVA2	3G	PASS	08:42:58
VOSET-MOLD-LTE1	CSFB->3G	PASS	08:52:17
VOSET-MOLDOVA2	3G	PASS	08:58:06

Error list

Time	Robot	Network	Operator	Sender	Receiver	Details	SMS time	Result	Error
2019-08-06 08:19:13	VOSET-MOLD-LTE3	CSFB->3G	25901	+37360333149	555	1.delete sms OK 2.delete vmail OK 3.creating new vmail OK 4.receiving sms NOK timeout 100sec	0	FAIL	4.receiving sms NOK timeout

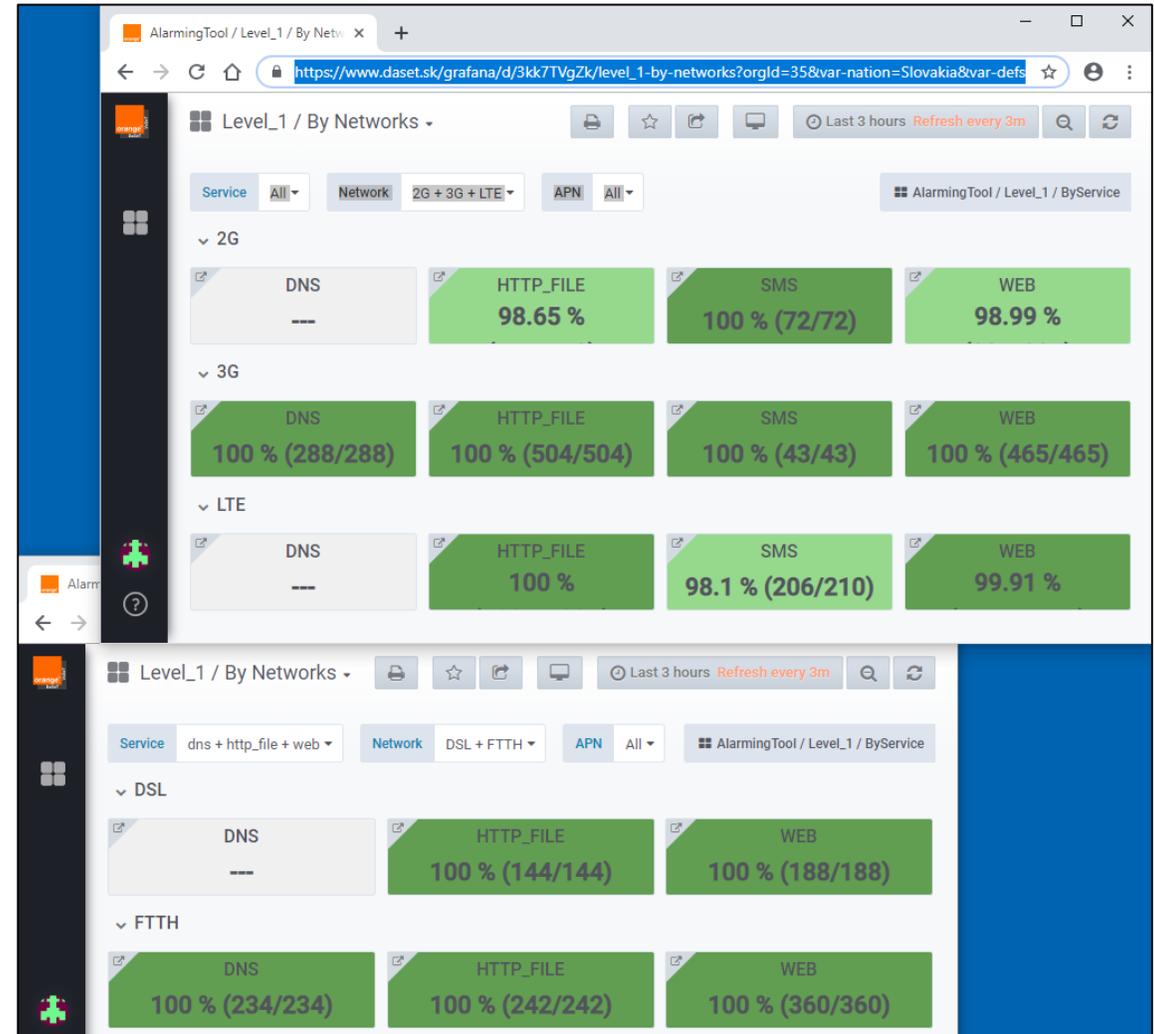
# Alarming Tool Voice services – level 2

- Cell ID and RX level in RAN details panel



# Alarming Tool – key points

- Check if all tested services should be supervised
- Thresholds can be changed
- The same user account can be used on more computers
- More TABs with different settings can be opened
- An access to the Alarming tool can be joined with Reporting tool for supervision team.





**Thank you**