Use case: Swapping Vendors

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NetChart has many use cases and functionalities that can make its user's life easier and help them solve problems, optimize the network and much more.

One of its use cases is the Swapping Vendors.

Scenario

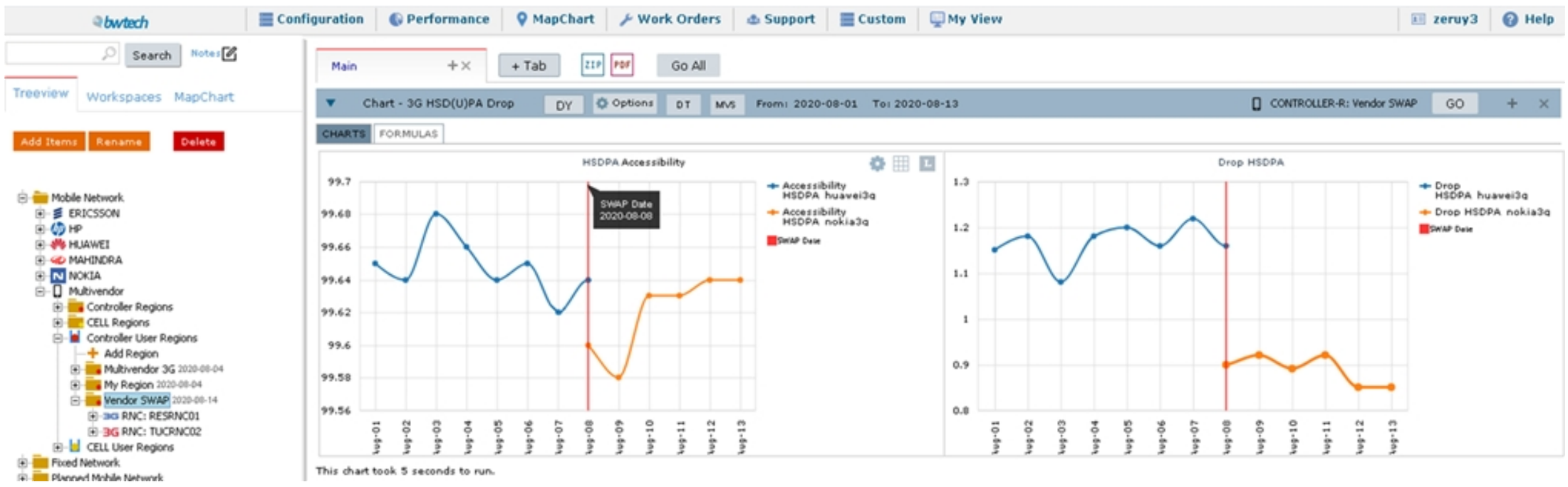
The use case for swapping vendors normally happens when:

- There is going to happen a vendor swap on a specific date.
- The new vendor performance must be equal or better than the previous one.
- The differences must be visually easy to spot and compare.

NetChart multivendor for Swap operations

The multivendor function can be used in Swap Operations. Take a look!

In the image, there is:
- **A region with one RNC from Huawei (blue) that was swapped to Nokia (orange).**
- **Accessibility and Drop KPIs (any KPI can be configured) before and after the swapping operation.**
- **The swap date (the red line). This can be configured directly in NetChart.**



- **Any RAN (2G, 3G, 4G, 5G), TX or CORE element can be monitored for swap operations through the interface.**
- **Regions can be created dynamically by the user, or set automatically in the project setup.**

NetChart troubleshooting

NetChart is also a robust troubleshooting tool. For Swapping Vendors, this function can be a great ally:

- **If the performance is worse after the swap, the tool's functions can be used for troubleshooting CM, PM and FM.**
- **Specific functions, given the element and vendor, can also be developed like: when swapping a 3G site, make sure the new vendor site has cells with the same frequency set.**

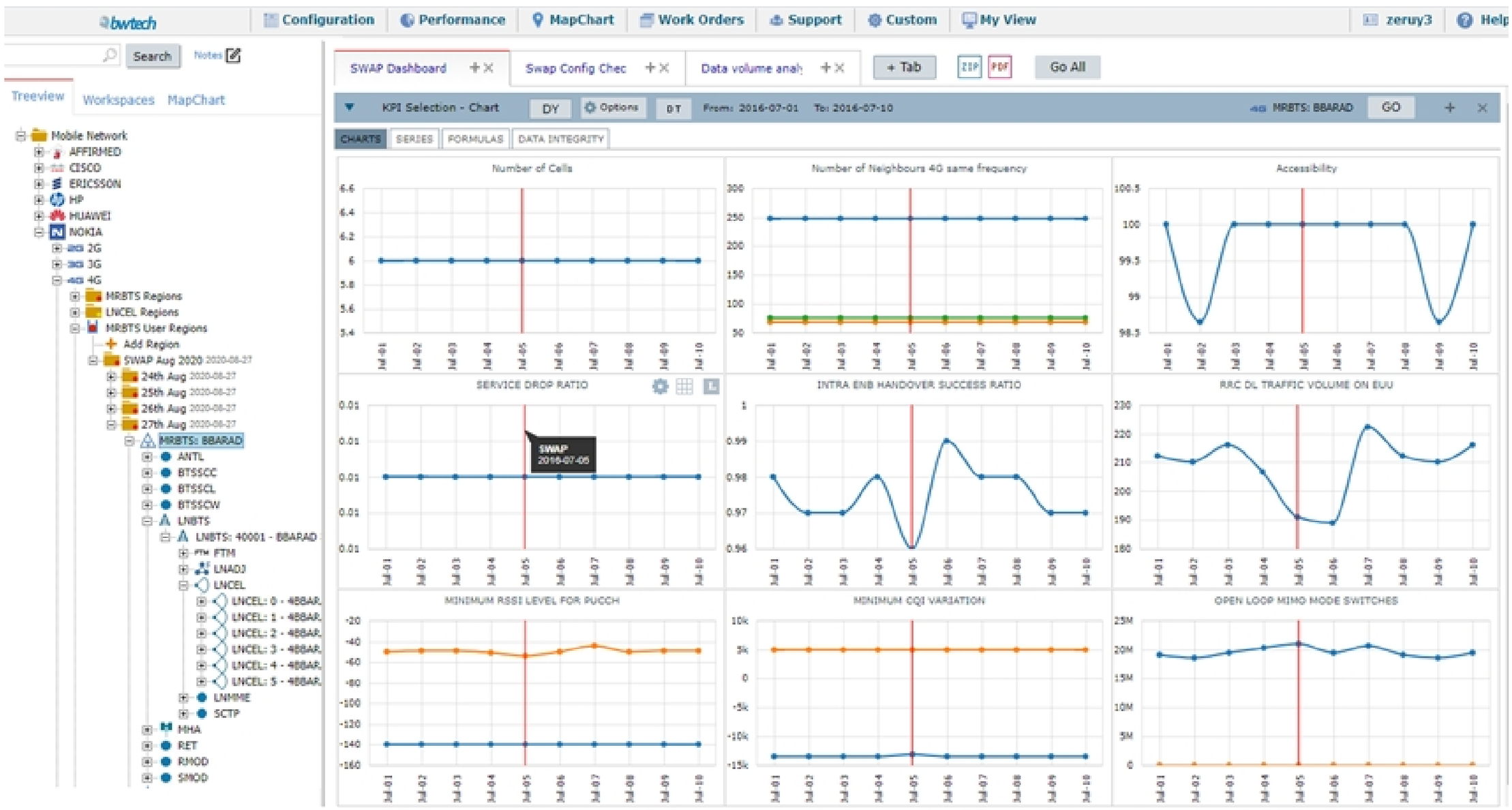
After Swapping Vendors

After the swap is made, there are many options for our users to analyze what happened and check the network's health. There are some functions that can really help in the post swap scenario, such as:

- **Acceptance Dashboard**
- **Parameters Configuration Check**
- **Logical Alarms**
- **NetWarden**

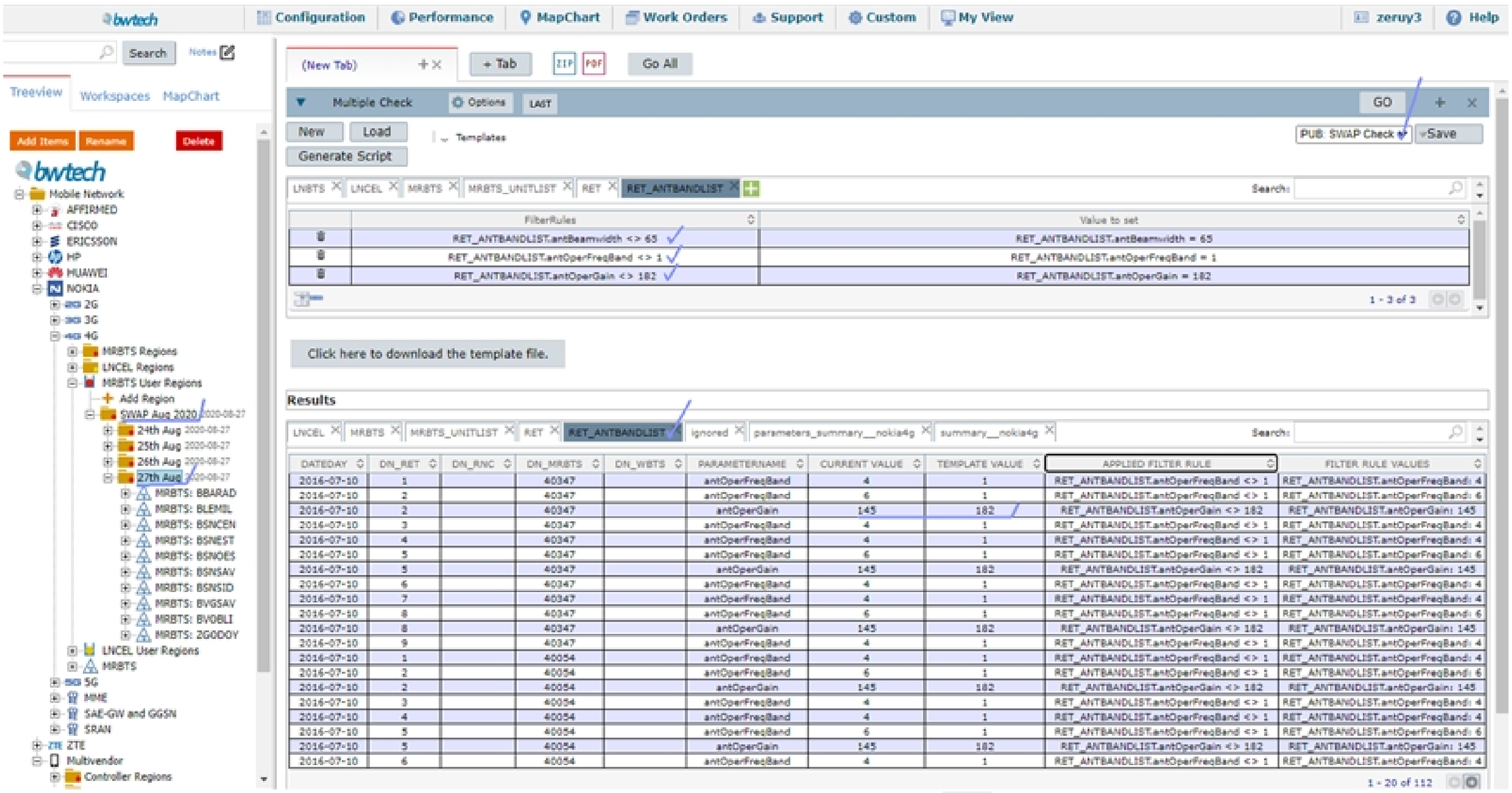
Acceptance Dashboard

This function allows the user to check if the number of cells and neighbors are the same. It also makes it possible to see the main KPIs' health.



Parameters Configuration Check

This is a feature that checks if the Site, Cell, and RET parameters were set properly in the new swapped site. It can be made through NetChart's multiple check function, where the user can enter the rules he needs according to their company's standards.



Logical Alarms

Through NetChart's interface, the user can configure specific alarms for swapped elements in order to automatically detect degradations during its initial operation period.

Active Alarms | Options | AU | SHOW ALARMS

Export | Filter

Next data update in 00:10:58. Last update: 2020-07-27 13:53:49.

Alarms List Search:

TECH	ALARM_ID	ALARM NAME	CRITICAL OR MAJOR (%)	CRITICAL	MAJOR	MINOR	WARNING	LAST_EXECUTION	ROP_OFFSET
nokia4g	28	NOKIA 4G Accesibilidad Total Packet x Sitio	33.33	2	2	2	2	2020-08-27 13:45:00	8 (99.30%)
nokia3g	29	NOKIA 3G Accesibilidad Voz x RNC	0	0	0	0	0	2020-08-27 13:45:00	4 (99.60%)
nokia2g	30	NOKIA 2G Accesibilidad Voz x BSC	0	0	0	0	1	2020-08-27 13:45:00	4 (99.40%)
huawei4g	32	HUAWEI 4G Accesibilidad Total Packet x Sitio	0	0	0	0	2	2020-08-27 13:45:00	4 (99.60%)
ericsson4g	33	ERICSSON 4G Accesibilidad Total Packet x Sitio	0	0	0	0	0	2020-08-27 13:45:00	3 (100.00%)
nokia2g	34	NOKIA 2G Drop Voz x BSC	0	0	0	1	0	2020-08-27 13:45:00	4 (99.40%)
nokia3g	35	NOKIA 3G Drop Voz x RNC	0	0	0	0	0	2020-08-27 13:45:00	4 (99.60%)
nokia3g	36	NOKIA 3G Accesibilidad HSDPA x RNC	0	0	0	0	0	2020-08-27 13:45:00	4 (99.60%)
nokia4g	37	NOKIA 4G Service Drop x Sitio	66.67	1	1	1	0	2020-08-27 13:45:00	8 (99.30%)
nokia3g	38	NOKIA 3G Drop HSDPA x RNC	0	0	0	0	0	2020-08-27 13:45:00	4 (99.60%)
ericsson4g	39	ERICSSON 4G Service Drop x Sitio	0	0	0	0	0	2020-08-27 13:45:00	3 (100.00%)
huawei4g	40	HUAWEI 4G Service Drop x Sitio	0	0	0	0	0	2020-08-27 13:45:00	4 (99.60%)
huawei4g	51	HUAWEI 4G Accesibilidad Total Packet x CU	0	0	0	0	0	2020-08-27 13:45:00	4 (99.60%)
huawei4g	63	HUAWEI 4G Service Drop x CU	0	0	0	0	0	2020-08-27 13:45:00	4 (99.60%)
huawei3g	67	HUAWEI 3G Drop Voz x CU	0	0	0	0	0	2020-08-27 13:45:00	3 (99.70%)
ericsson4g	69	ERICSSON 4G Delta de Trafico DL x TAC	0	0	0	0	0	2020-08-27 13:45:00	3 (100.00%)
huawei4g	70	HUAWEI 4G Delta de Trafico DL x TAC	0	0	0	1	1	2020-08-27 13:45:00	4 (99.60%)
nokia4g	71	NOKIA 4G Delta de Trafico DL x TAC	55.56	4	1	2	2	2020-08-27 13:45:00	8 (99.30%)
nokia3g	84	NOKIA 3G TWAMP Packet Loss x RNC	0	0	0	0	0	2020-08-27 13:45:00	4 (99.60%)
huawei3g	86	HUAWEI 3G TWAMP Packet Loss Fwd x RNC	0	0	0	0	0	2020-08-27 13:45:00	3 (99.70%)

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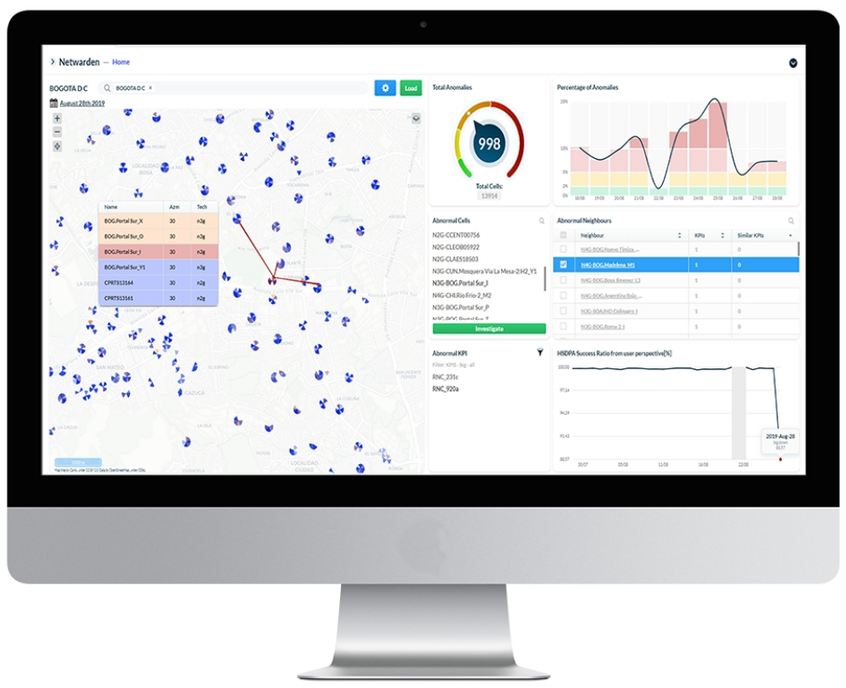
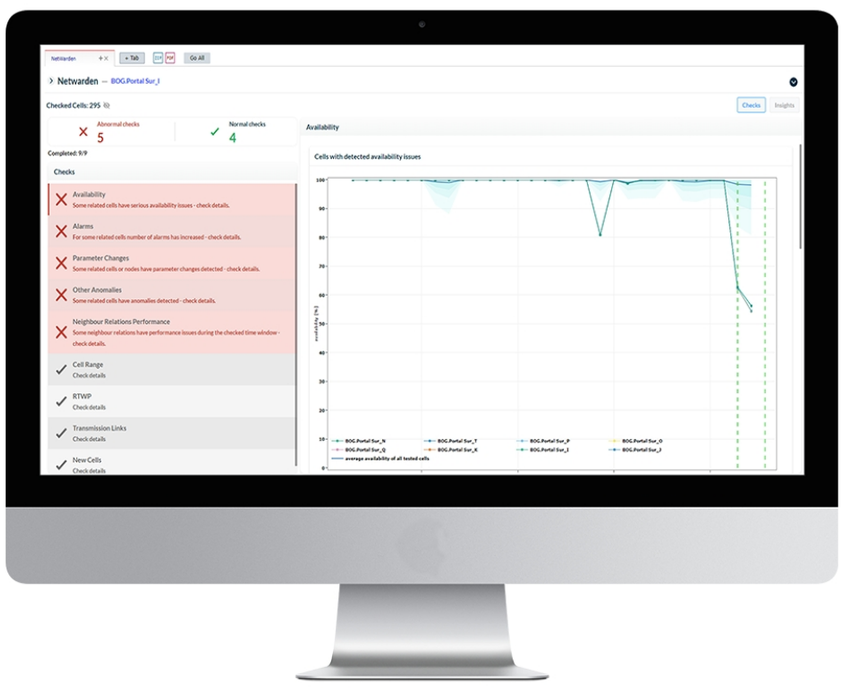
ID: 380 - NOKIA 4G Accesibilidad Total VOLTE x Sitio Search:

ALARM_ID	ALARM NAME	STATE CHANGES	ELEMENT ID	ELEMENT NAME	STATUS	KPI	CI	LAST ALARM REPORTED	ROP OFFSET
380	NOKIA 4G Accesibilidad Total VOLTE x Sitio	1	nokia4g__mrbts__179069__	WCSBNT_2	critical	0		2020-08-27 10:45:00	5
380	NOKIA 4G Accesibilidad Total VOLTE x Sitio	1	nokia4g__mrbts__149074__	WMCGIL_2	critical	49		2020-08-27 10:45:00	5

NetWarden

NetWarden can be used to detect abnormal elements based on machine learning instead of manually defined thresholds. Its automation performs a series of analysis to help identify the problematic element in the network.





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