



SUMMIT
ONLINE / 2020

"SAF PRODUCTS INTEGRATION INTO ZABBIX"

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Technical Services Director



NORTH AMERICA




PLACE OF ORIGIN - LATVIA

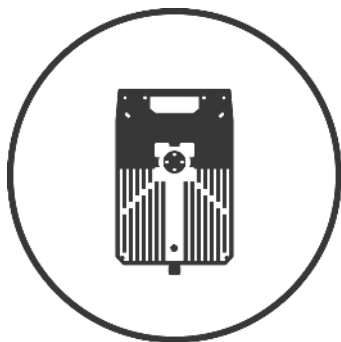
- Established in **1918**
- Population **2m**
- Member of **NATO, EU** and **OECD**
- Currency **EUR**
- Official language - **Latvian**



ABOUT SAF Tehnika

- 
- ✓ Profitable/no debt balance sheet
 - ✓ Presence in 130+ countries
 - ✓ Manufacturing in the European Union
 - ✓ ISO 9001 certified
 - ✓ Zabbix Certified Partner since August 2020
 - ✓ 20 years in business
 - ✓ Publicly traded on NASDAQ Riga Stock Exchange
 - ✓ Flexible R&D, able to provide custom solutions based on customer requirements

MAIN PRODUCT GROUPS



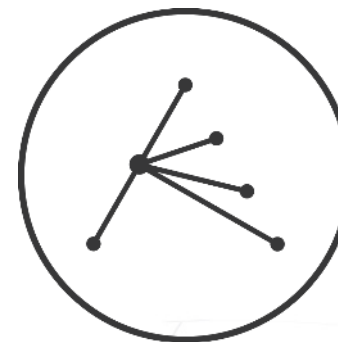
POINT-TO-POINT
SYSTEMS

www.saftehnika.com



MW SPECTRUM
ANALYZERS

www.spectrumcompact.com



ARANET WIRELESS
SENSOR SOLUTIONS

www.aranet.com

POINT-TO-POINT SYSTEMS

- Perfect alternative to fiber
- Top Quality
- Long distance wireless links
- Excellent technical support
- Fast & easy deployment
- 5 year standard warranty
- Solutions for
 - WISP's
 - Broadcasting (**No.1 in USA**)
 - Public Safety
 - Utilities & Mining
 - Enterprise networks
 - Local Gov't. & Military
 - Low Latency/HFT (**No.1 globally**)
- ...and many more

5 Year
standard
warranty

MAIN RADIO PRODUCTS



Up to 10Gbps



Built-in 2+0 X PIC solution



4-4096 QAM modulation



Up to 2GHz channel bandwidth

Integra series



PhoeniX-G2



Marathon II



SAF SERVICES

- ✓ product training
- ✓ link planning
- ✓ technical support
- ✓ staging and configuration
- ✓ FCC coordination
- ✓ Zabbix deployment and support

<https://saftehnika.com/en/stagingandconfig>

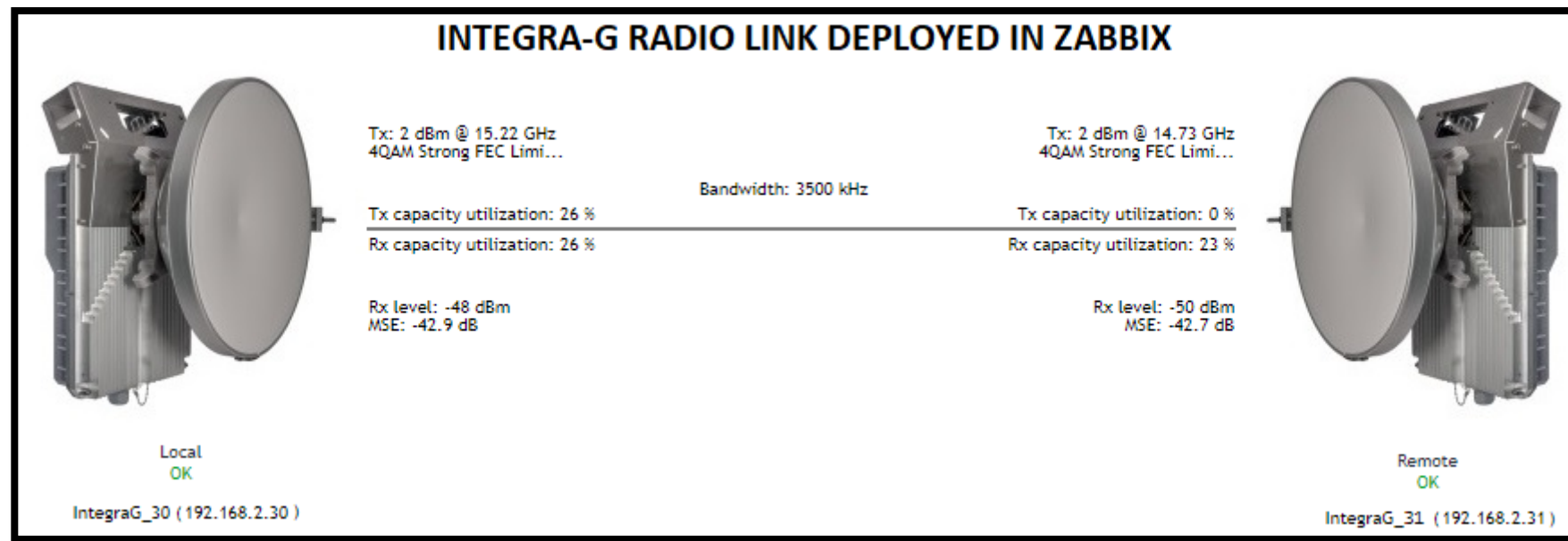
SAF PARTNERSHIP WITH ZABBIX



ZABBIX TEMPLATES FOR SAF EQUIPMENT

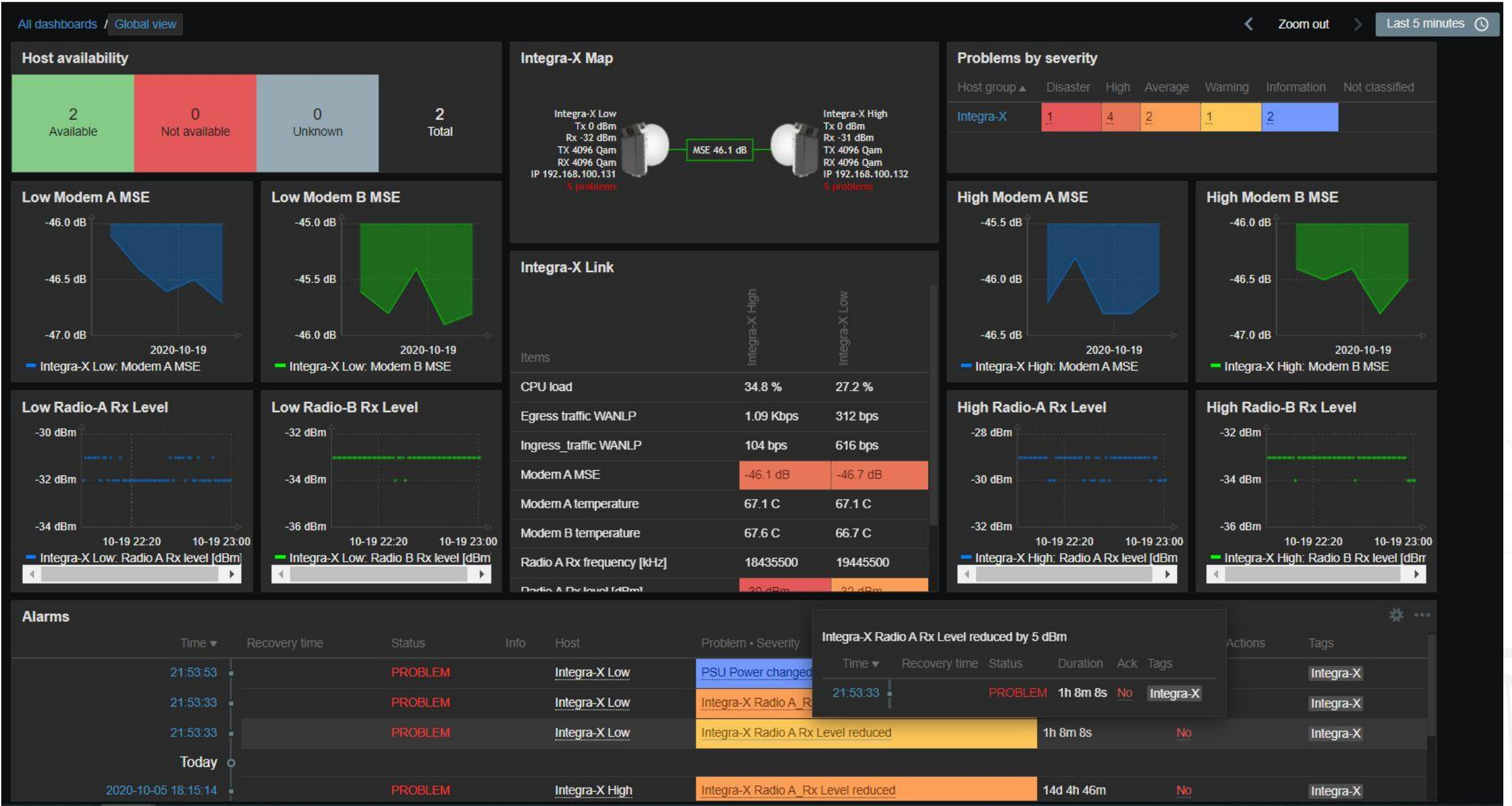
SAF has developed Zabbix templates for main product lines:

- Integra-X, Integra-E, Integra-G, Integra-W, and Phoenix G2

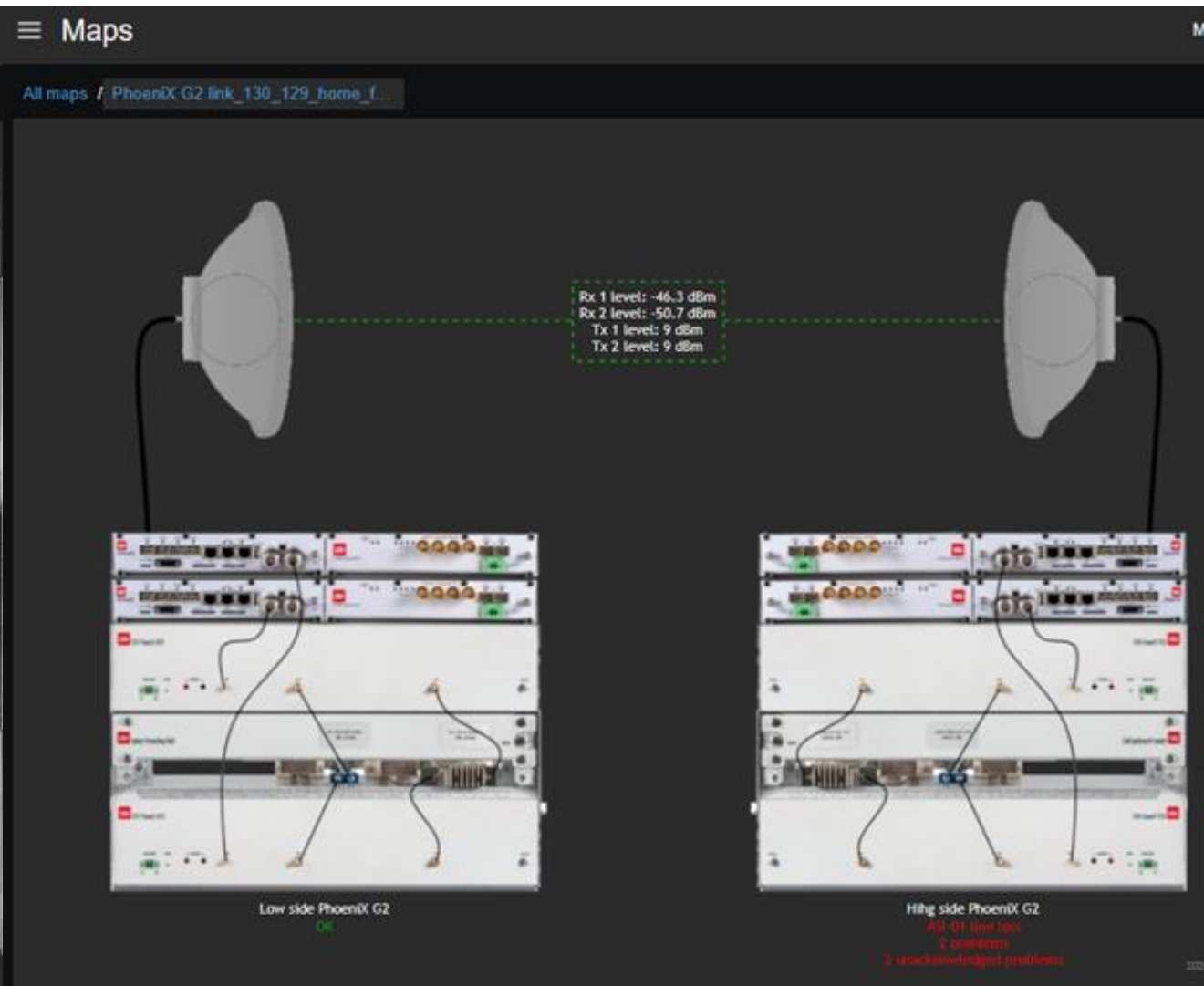
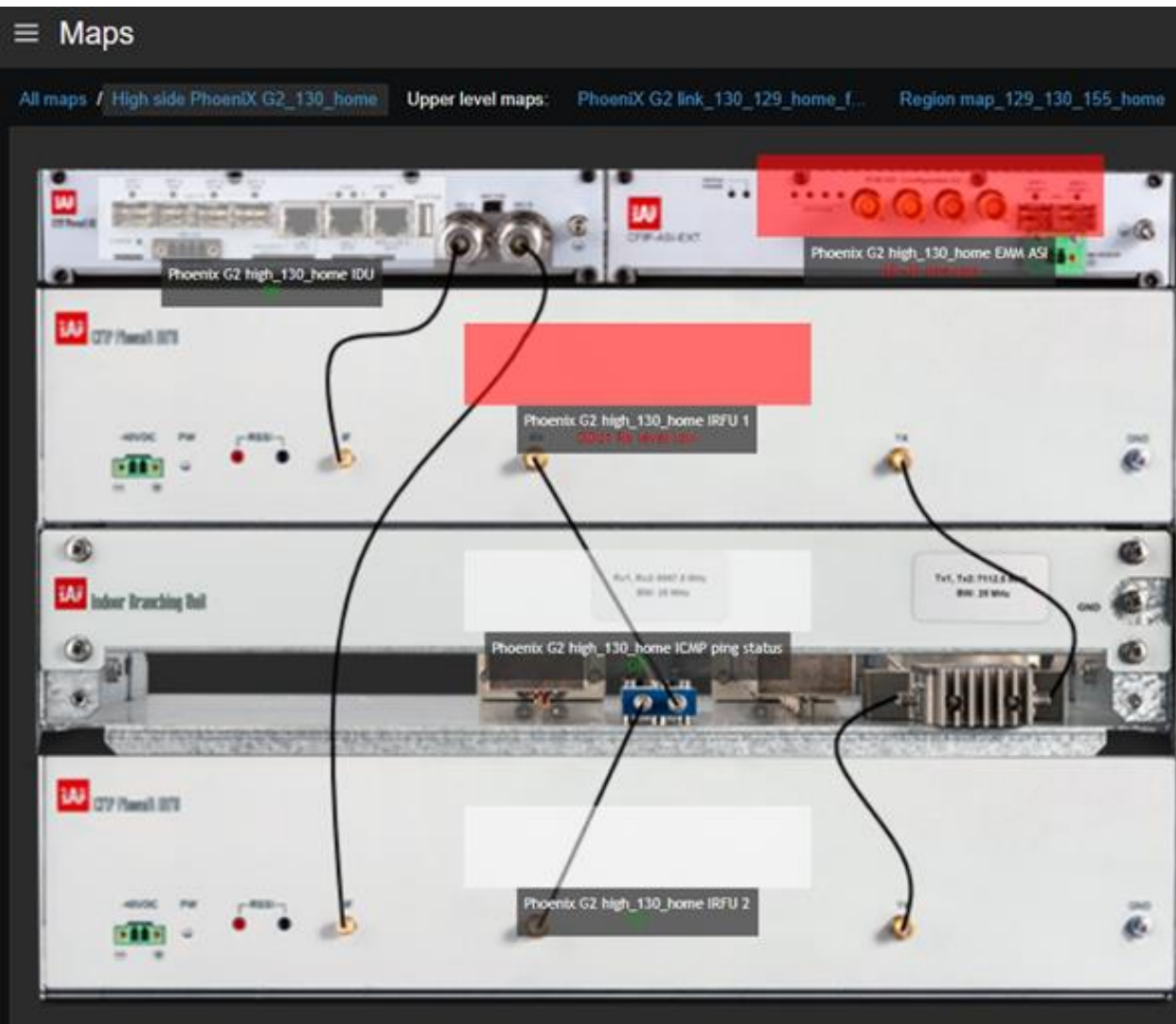


Templates available on SAF webpage: <https://www.saftehnika.com/en/downloads>
(registration required)

ZABBIX DASHBOARD FOR INTEGRA X



ZABBIX MAPS VIEW FOR PHOENIX G2

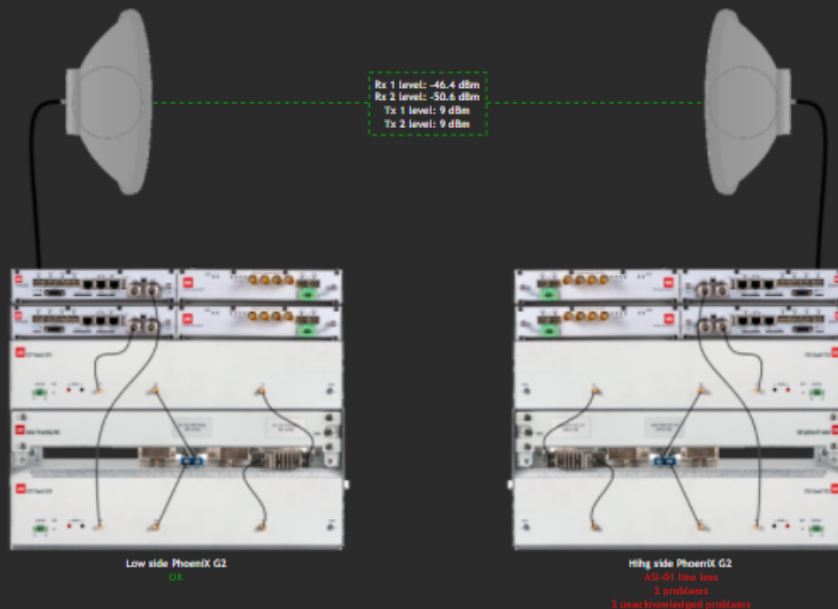




Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	147	4 / 5 / 138
Number of items (enabled/disabled/not supported)	4483	225 / 4251 / 7

3
Available1
Not available0
Unknown4
Total

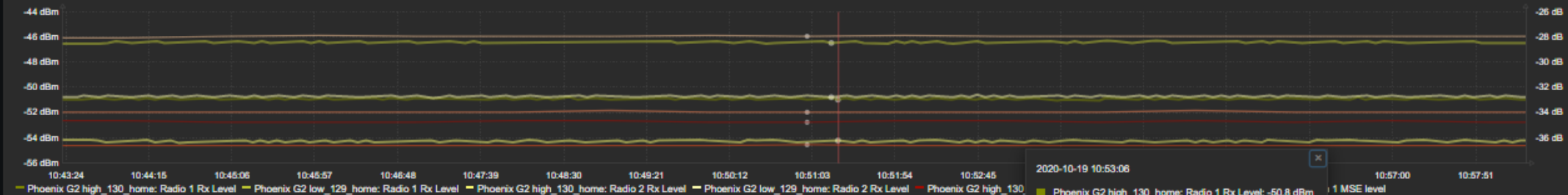
Phoenix G2 map



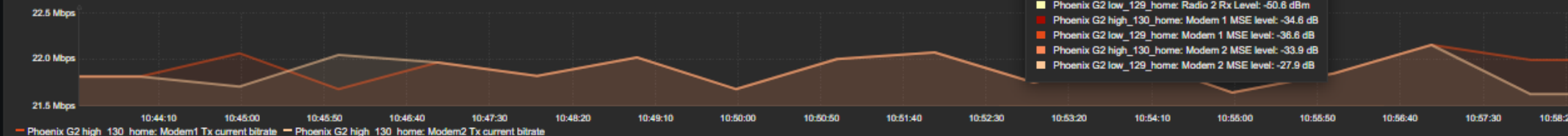
Problems

Time	Recovery time	Status	Info	Host	Problem • Severity	Duration	Ack	Actions
10:58:10	10:58:20	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	10s	No	
10:58:00	10:58:05	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	5s	No	
10:57:55		PROBLEM		Phoenix G2 low_129_home	Radio 1 Rx level low	27s	No	
10:57:45	10:57:50	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	5s	No	
10:57:30	10:57:40	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	10s	No	
10:57:10	10:57:50	RESOLVED		Phoenix G2 low_129_home	Radio 1 Rx level low	40s	No	
10:57:00	10:57:10	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	10s	No	
10:56:50	10:56:55	RESOLVED		Phoenix G2 low_129_home	Radio 1 Rx level low	5s	No	
10:56:45	10:56:50	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	5s	No	
10:56:30	10:56:45	RESOLVED		Phoenix G2 low_129_home	Radio 1 Rx level low	15s	No	
10:56:20	10:56:30	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	10s	No	
10:56:05	10:56:25	RESOLVED		Phoenix G2 low_129_home	Radio 1 Rx level low	20s	No	
10:55:55	10:56:15	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	20s	No	
10:55:45	10:55:50	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	5s	No	
10:55:45	10:55:50	RESOLVED		Phoenix G2 low_129_home	Radio 1 Rx level low	5s	No	
10:55:30	10:55:40	RESOLVED		Phoenix G2 low_129_home	Radio 1 Rx level low	10s	No	
10:55:25	10:55:35	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	10s	No	
10:55:15	10:55:20	RESOLVED		Phoenix G2 low_129_home	Radio 2 Rx level is low	5s	No	

RX and MSE levels



ASL summary bitrate



ZABBIX SERVICES PROVIDED BY SAF



Zabbix deployment, configuration and integration



Consulting
Technical support on a contract basis

Note! SAF provides services only for customers who purchase SAF products

SAF CONTACT INFORMATION

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<https://saftehnika.com/en/stagingandconfig>

Questions?