

360° МОНИТОРИНГ с PRTG

Программа

- Для чего нужен мониторинг
- Преимущества PRTG, архитектура и обзор решения
- О компании Paessler

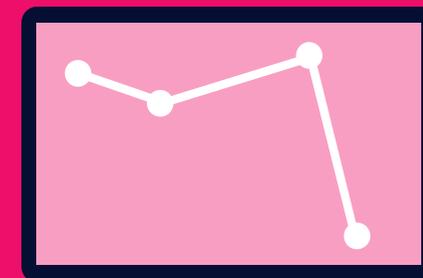
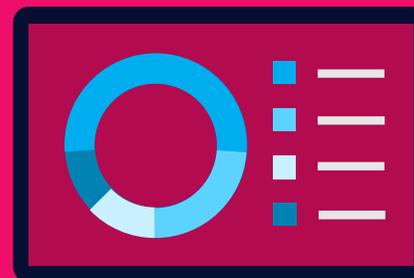


Сделайте ваш день проще!

В наши дни всё вокруг связано.



Вы должны
быть на шаг
впереди.



Вы должны
быть на шаг
впереди.



Раньше мониторинг требовал множества действий



МОНИТОРИНГ 1Й СИСТЕМЫ



МОНИТОРИНГ 2Й СИСТЕМЫ



МОНИТОРИНГ 3Й СИСТЕМЫ



МОНИТОРИНГ 4Й СИСТЕМЫ



МОНИТОРИНГ 5Й СИСТЕМЫ



Раньше мониторинг требовал множества действий



КОНТРОЛЬ ВСЕХ ЭЛЕМЕНТОВ ВАШЕЙ ИТ-ИНФРАСТРУКТУРЫ

Управляйте вашей сетью



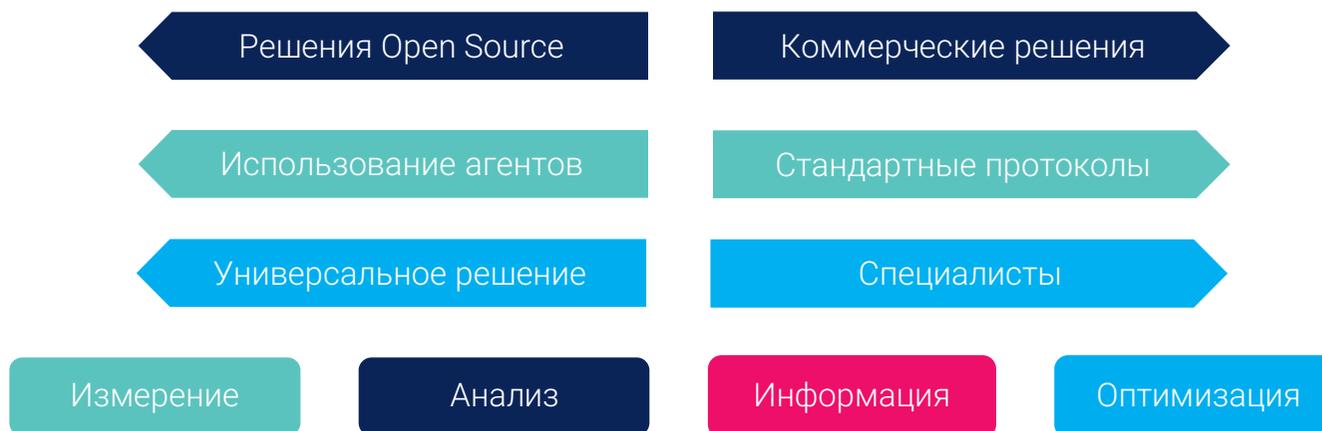
- Централизованный контроль
- Упрощённый процесс
- On-premise или облачная версия
- Оптимизация

Управляйте вашей сетью



- Предупреждение сбоев
- Оповещение об отказах
- Оптимизация сети
- Рост качества услуг

Наше определение понятия МОНИТОРИНГ

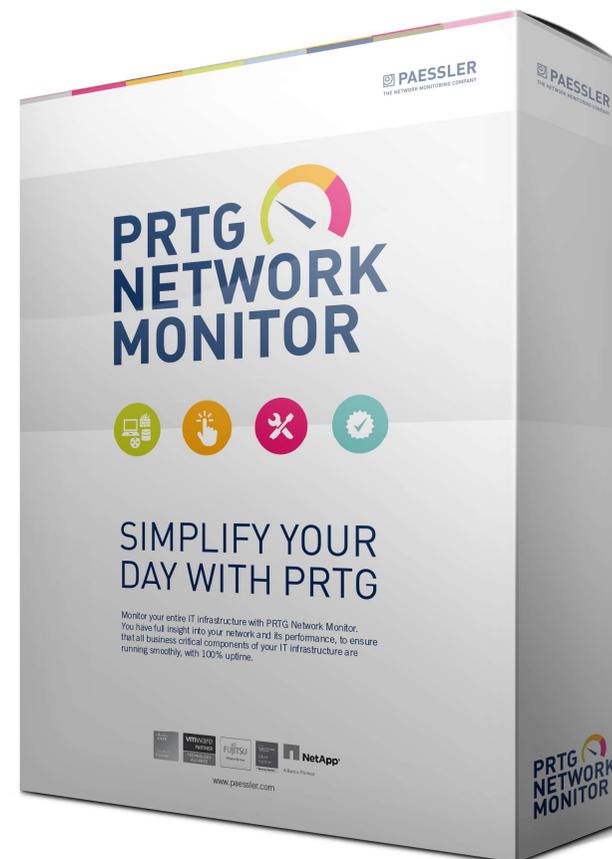


Наше определение понятия МОНИТОРИНГ



5 ОСНОВНЫХ критериев выбора

- Простота обслуживания
- Широта применения
- Гибкость настроек
- Система уведомлений
- Бюджет



PRTG – легкость в использовании

- Только одна программа установки
- SmartSetup и авто-обнаружение
- Множество интерфейсов
- Подробная документация, база знаний
- Мощная система уведомлений

Сенсор

Сенсор?

Physical Disc Sensor

Sensor

Pos	Sensor	Status	Message	Graph
1.	<input checked="" type="checkbox"/> Datastore Free: datastore1	Up	OK	Free Space 98.898 %

Disk State



online

Component Status



Ok

Channel

SMART Warning

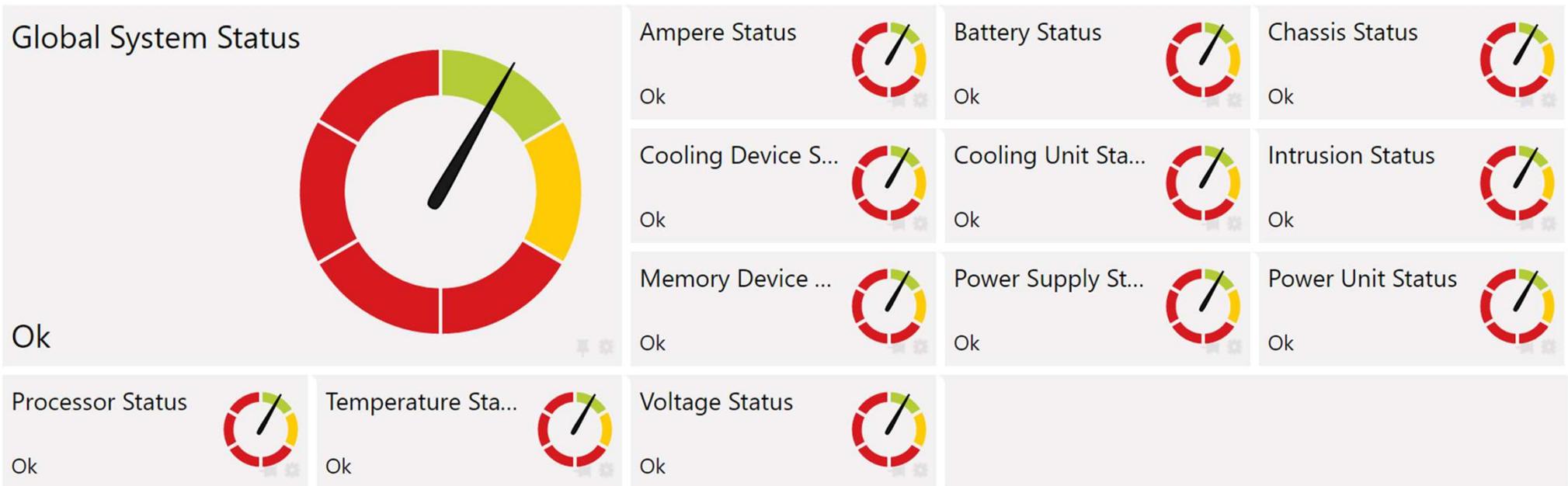


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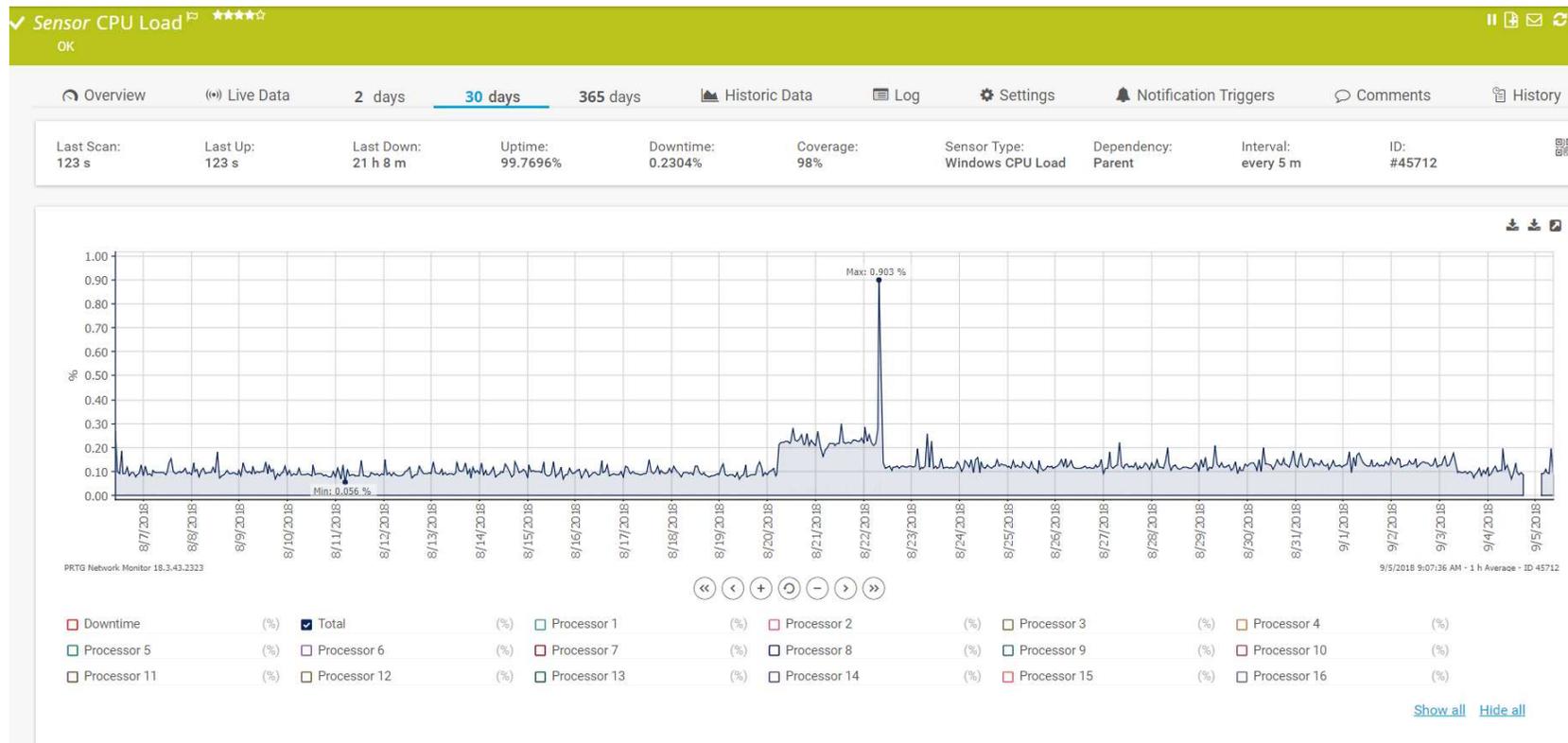
Channel

Channel

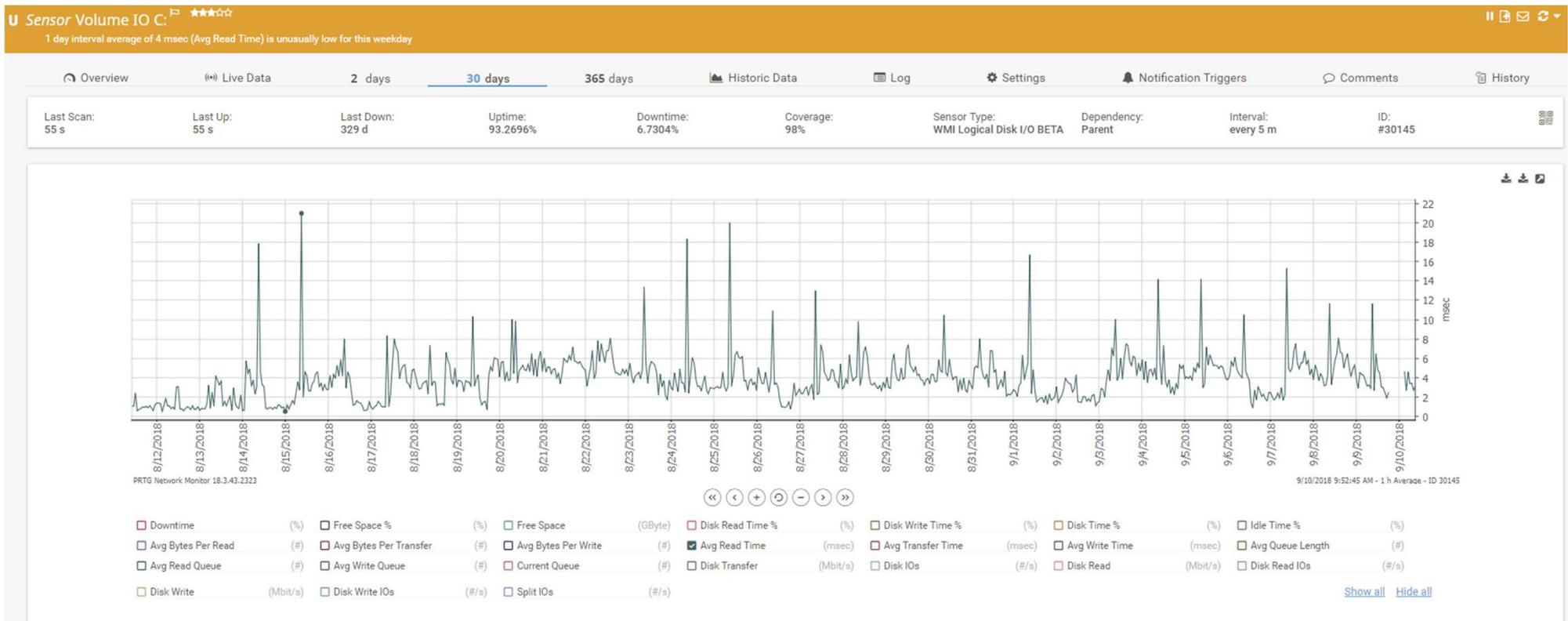
Dell System Status



Исторические данные

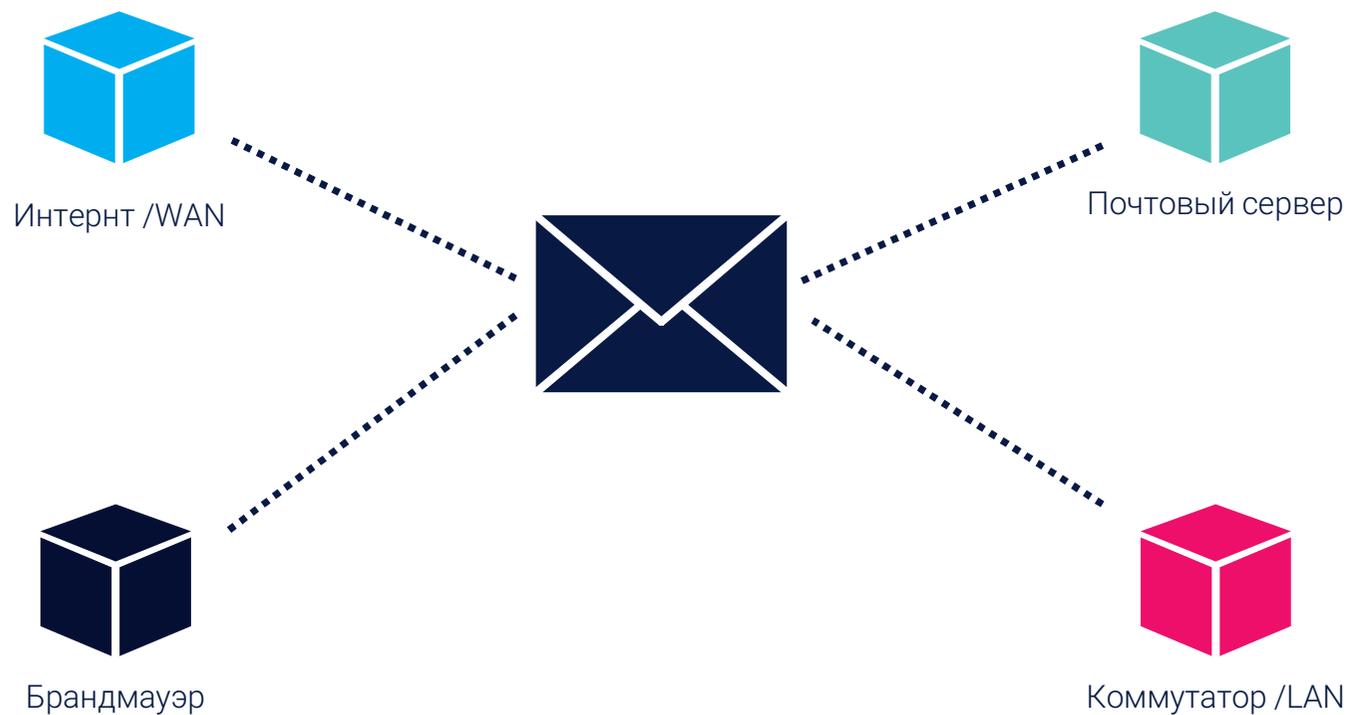


Нестандартная ситуация



Бизнес-процессы

Работает ли ваше почтовое приложение?



The screenshot shows the PRTG sensor configuration interface for an "E-Mail" sensor. The browser address bar shows the URL: https://ffm.prtgdemo.com/sensor.htm?id=30103&tabid=8. The top navigation bar includes tabs for Home, Devices, Libraries, Sensors, Alarms, Maps, Reports, Logs, Tickets, and Setup. A status bar at the top right displays "New Alarms 3", "New Log Entries 338", and various warning and error counts.

Basic Sensor Settings

- Sensor Name: E-Mail
- Parent Tags: BPS, businessprocesssensor
- Tags: factorysensor, businessprocesssensor
- Priority: ★★☆☆☆

Business Process Specific Settings

States and Conditions

Step 1. The sensor checks the conditions of the objects in its channels. The following object states allow for the up condition of a channel:
Up, Warning, Unusual, Down (Partial), Unknown (Collecting)

These are the object states that will support the down condition of a channel:
Down, Unknown (None), Paused, Down (Acknowledged)

Have a look at the manual if you are interested in the reasoning behind these decisions.
A probe, group, or device that you add to a channel is in up condition as long as none of its sensors are in down condition.

Step 2. The Business Process sensor compares your thresholds with the conditions of the objects in a channel to check if the channel is in an all-over up, warning, or down status. If there is a smaller percentage of up objects than indicated by your warning or error threshold, the channel status will be set to warning or down respectively.

Channel Name	Error	Warning	Objects
DB	50	75	MySQL
webserver	50	75	IIS
firewall	50	75	(013) GigabitEt...
Web Services	50	75	Web Services
Enter Channel Name	50	75	

At the bottom of the page, there is a footer with the Paessler logo, version information (19.2.50.2842+ SPA), a refresh button, and contact information (Contact Support, Help).

The screenshot shows the PRTG sensor details page for 'E-Mail'. The browser address bar shows the URL: <https://fm.prtgdemo.com/sensor.htm?id=30103&tabid=1>. The navigation menu includes Home, Devices, Libraries, Sensors, Alarms, Maps, Reports, Logs, Tickets, and Setup. The sensor status is 'Up' with a green indicator.

Global State

DB: Up
firewall: Up
Web Services: Up
webserver: Up

Channel	ID	Last Value	Minimum	Maximum
DB	1	Up	Up	Down
Downtime	-4			
firewall	3	Up	Up	Down
Global State	0	Up	Up	Down
Web Services	4	Up	Up	Down
webserver	2	Up	Up	Down

Live Graph, 10 hours

2 days

30 days

365 days

Metadata:

- Last Scan: 175 s
- Last Up: 175 s
- Last Down: 17 m 55 s
- Uptime: 99.1901%
- Downtime: 0.8099%
- Coverage: 99%
- Sensor Type: Business Process
- Dependency: Parent
- Interval: every 5 m
- ID: #30103

Similar Sensors Detection:

The Similar Sensors Detection is a heuristic calculation that analyzes similar values in the sensor data of your entire PRTG installation. This way, PRTG can detect unexpected correlations between different components in your network and help optimize your sensor usage.

Why can't I see any sensor similarities here?

- The Similar Sensors Detection is currently turned off. To enable the analysis of similar sensors, open **Setup | System Administration | Monitoring** and set your preferred analysis depth in section **Similar Sensors Detection**.
- For more information about the Similar Sensors Detection in PRTG, see the PRTG Manual: **Similar Sensors**.

PAESSLER 19.2.30.2842+ SPA 11:22 Refresh in 23 sec Contact Support Help

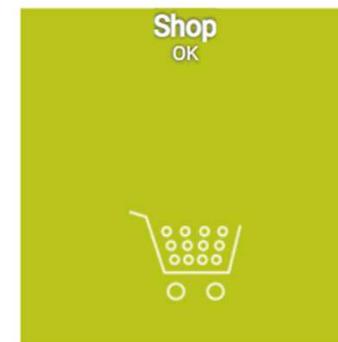
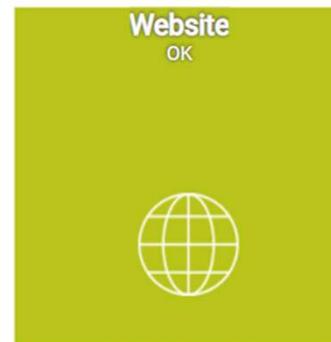
Карта процессов бизнеса

DE Diese Map zeigt den Status zu 6 verschiedenen Unternehmensprozessen, abstrahiert von den darunterliegenden Einzelkomponenten (z.B. Switche, Datenbanken, Internetverbindung, Performance).

Natürlich ist es auch in einer solchen Map möglich dem Kunden/Mitarbeiter weitere Services, z.B. Verkehrsdaten, zur Verfügung zu stellen.

EN This map shows the status of 6 different business processes summarized of their detailed components (e.g. switches, databases, connectivity, performance).

Of course you also can use this map for providing further services to your employee/customer, e.g. traffic data around your headquarter.



Карта процессов бизнеса

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ERP
Error by lookup value 'Down' in channel 'Global State' – Error by lookup value 'Down' in channel 'Switch'




Website
OK




Firewall
OK




Fileserver
OK

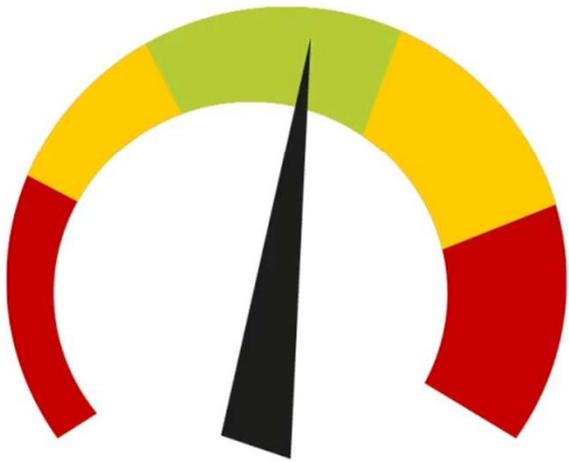



E-Mail
Error by lookup value 'Down' in channel 'Global State' – Error by lookup value 'Down' in channel 'Web Services'




Shop
OK





Уведомления

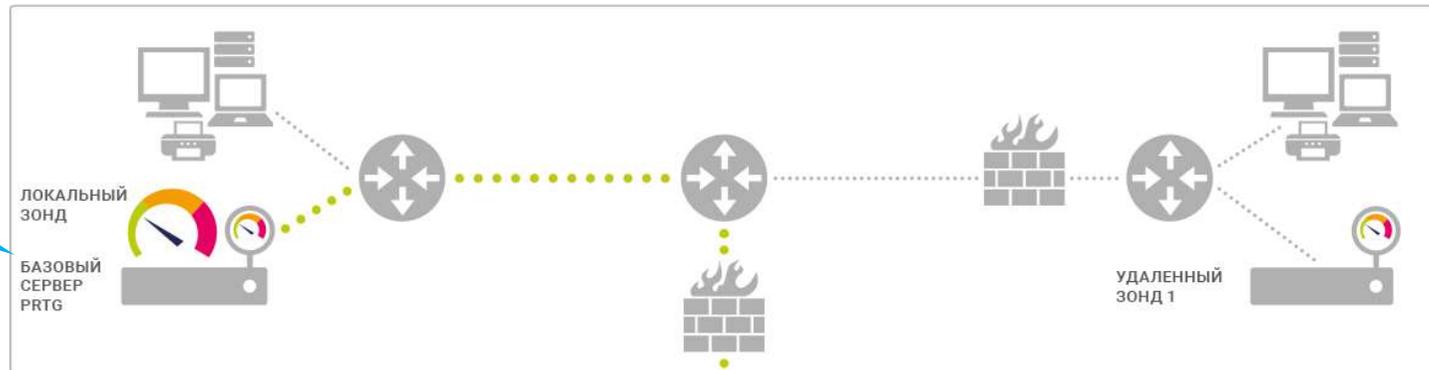
- @ E-mail
- ▶ Push notification
- 💬 SMS
- 📅 Add Entry to Event Log
- 📡 Syslog Message
- 📊 SNMP Trap
- ⚙️ Execute a Program .exe
- :// Execute HTTP Action
- # Slack Message
- 🗨️ Microsoft Teams Message
- 📢 Amazon SNS
- 🎫 Assign Ticket
- ⚙️ Execute Script
- 🔊 Sound Alarm

Обзор решения PRTG

Архитектура PRTG

Базовый сервер и локальный зонд

КОРПОРАТИВНАЯ ЛОКАЛЬНАЯ СЕТЬ



ХОСТИНГ-ПРОВАЙДЕР



TLS

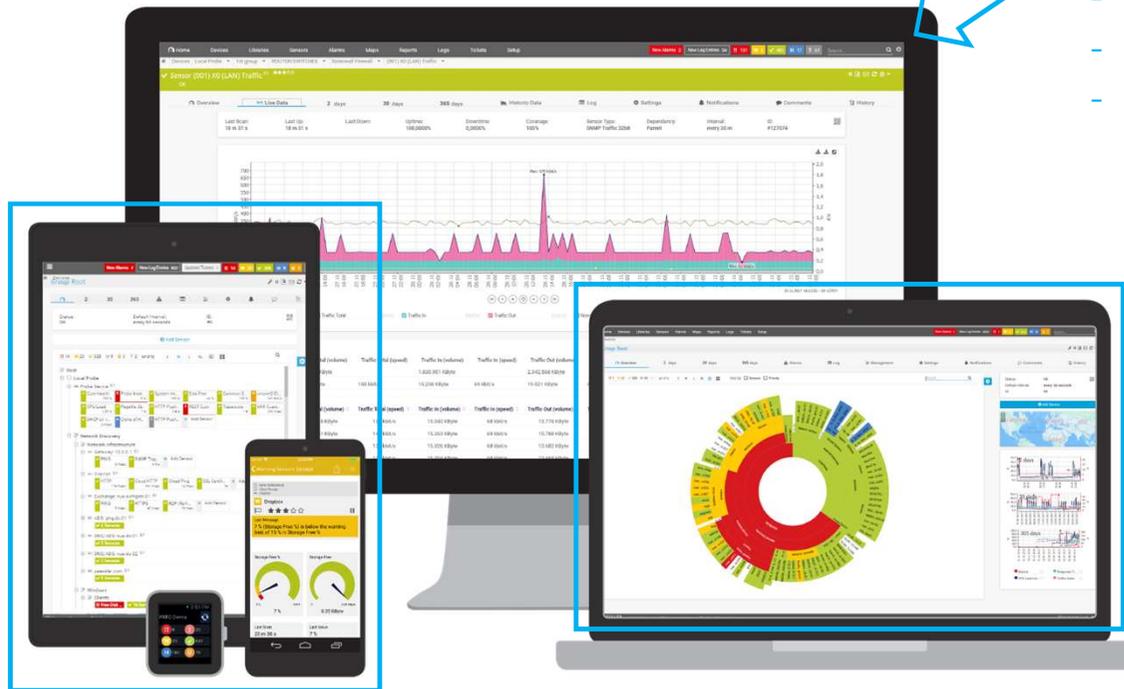
ИНТЕРНЕТ

ФИЛИАЛ



Выбор пользовательского интерфейса

iOS
Android
+ часы
+ бесплатно



AJAX веб-интерфейс

- Google Chrom
- Microsoft Edge
- Internet Explorer
- Mozilla Firefox

Client:
Windows
MacOS

Дашборды

Dashboard Overview

External Webcam



Traffic

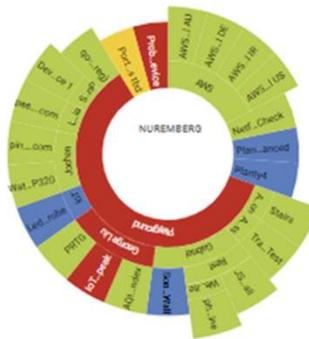
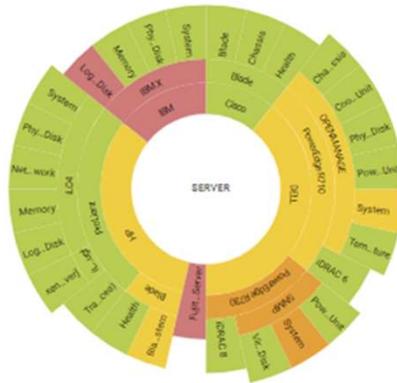


BUSINESS-PROCESSES



UP Sensors (VM)

Sensor	Status	Last Value	Graph	Priority
✓ debian-docker01	Up	0.1 %		★★★★○
✓ debian-docker02	Up	0.55 %		★★★★○
✓ G4PI Virtual Appliance	Up	0.005 %		★★★★○
✓ Netapp-Cluster0-2	Up	0 %		★★★★○
✓ Ping	Up	0 msec		★★★★○
✓ PixierReplicator	Up	1.1 %		★★★★○
✓ PixierScrutinizer	Up	2.71 %		★★★★○



Top 10: Highest Bandwidth Usage (Root)

Last Value	Sensor	Probe Group Device
22 Mbit/s	✓ (003) 4th Traffic	Datascanner (Remote Probe) (32.168.75.212) -> DNAP = Traffic
6.33 Mbit/s	✓ (048) To NUE-SW-K2-A-01 1/0/17 Traffic	Datascanner (Remote Probe) (32.168.75.212) -> 2920-wf700 Plus = Traffic
6.20 Mbit/s	✓ (048) To NUE-SW-K2-A-01 1/0/17 Traffic	Datascanner (Remote Probe) (32.168.75.212) -> 2920-wf700 Plus = Traffic

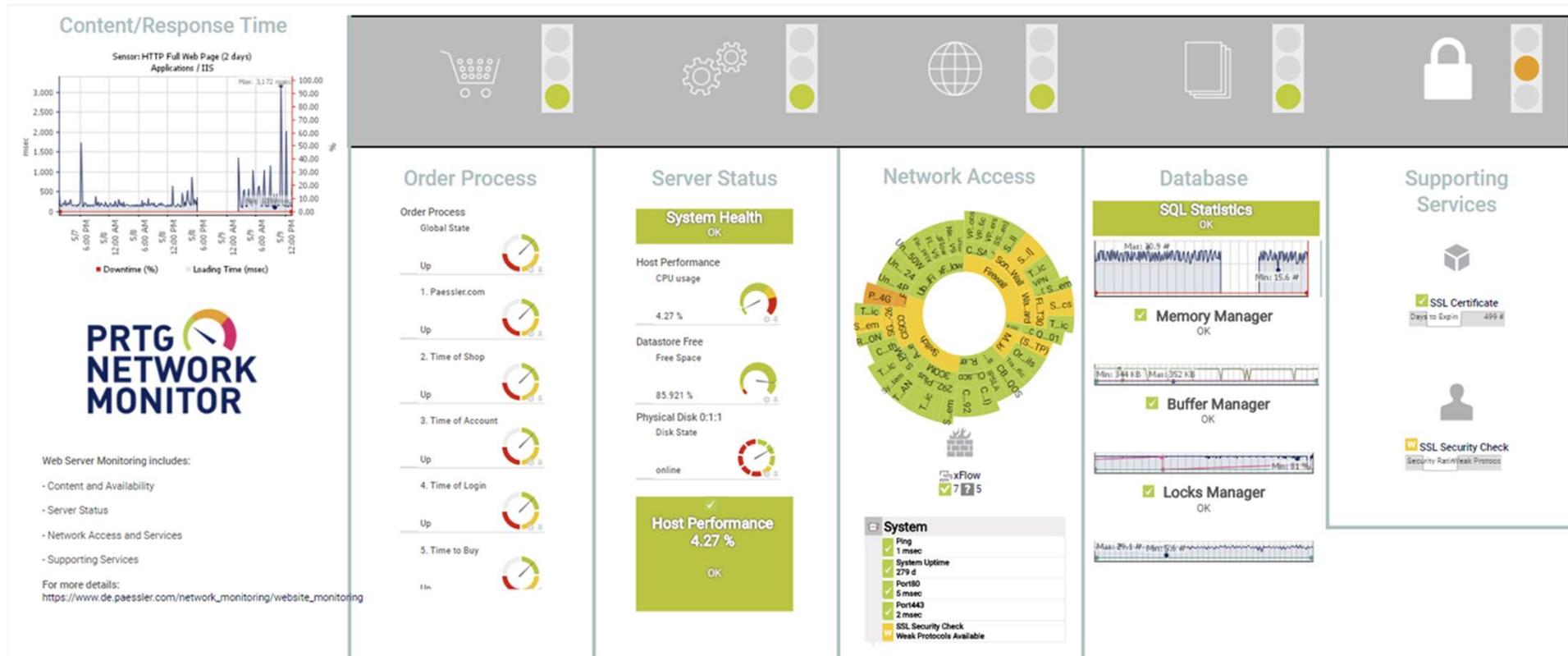
Top 10: Least Available Diskspace (Root)

Last Value	Sensor	Probe Group Device
14 %	✓ Disk Free: C:\Label: Serial Number face01b7	Datascanner (Remote Probe) (32.168.75.212) -> Delta Domain = EXC=01.prtgdemo.jan
16 %	✓ Disk Free: /mnt/exit	Datascanner (Remote Probe) (32.168.75.212) -> DNAP = Logical Disk
33 %	✓ Disk Free: /Share/MCO_DATA	Datascanner (Remote Probe) (32.168.75.212) -> DNAP = Logical Disk
34 %	✓ Share ISO	Datascanner (Remote Probe) (32.168.75.212) -> Buffalo Termination T53-000R = Share (T53-000R)

Alarms (Root)

Down for	Sensor	Status	Last Value	Ors
30 d	Windows Updates Status	Down		Tim
8 d 19 h	System	Down (Acknowledged)	OK	Tim
6 d	LoRa Dragino	Down		Tim

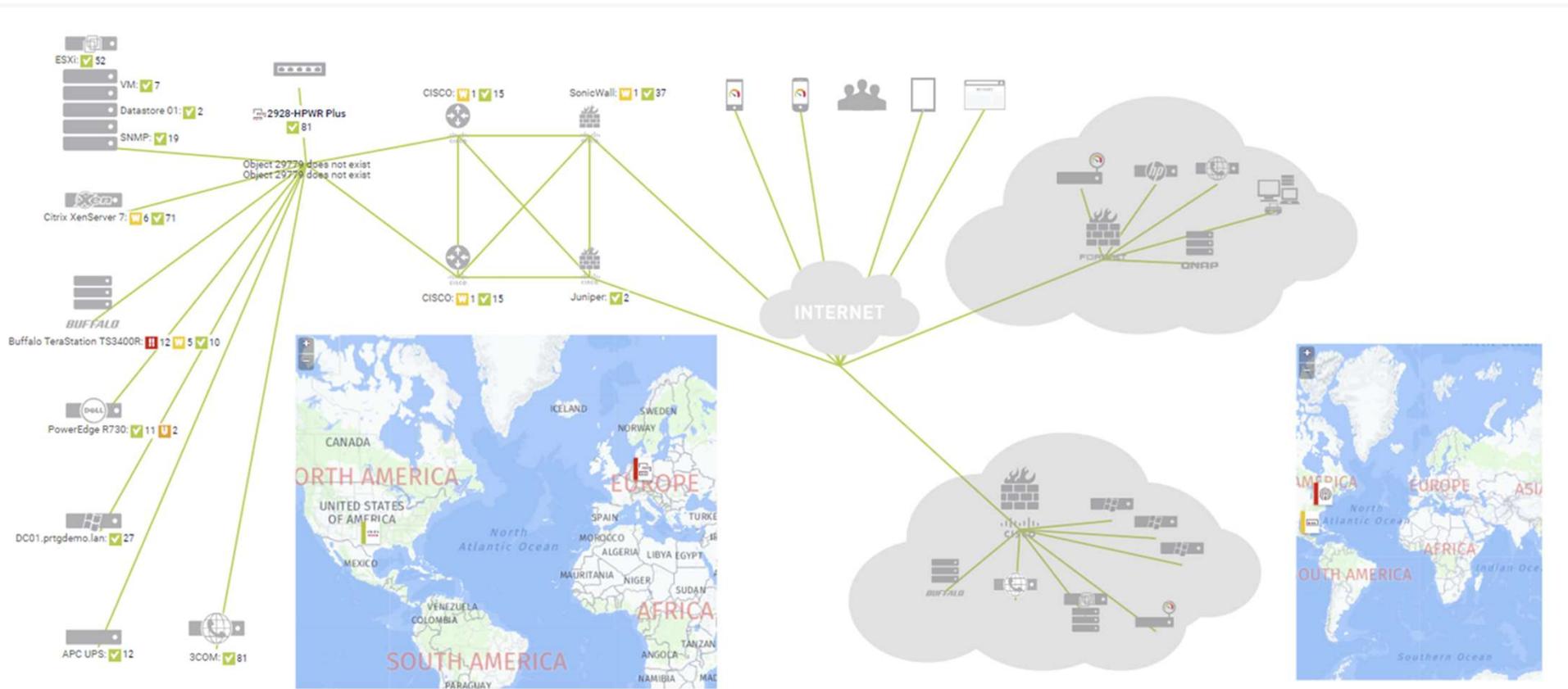
Карта Вебсервера



Map floor plan



Network map incl. branchoffice

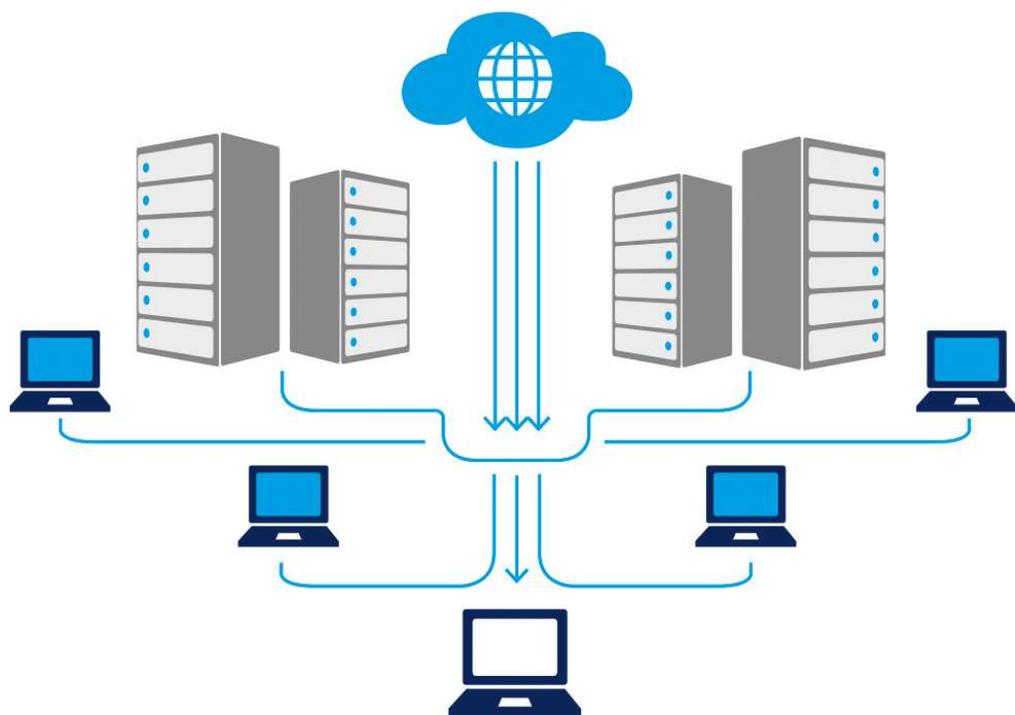


Коротко о Paessler AG

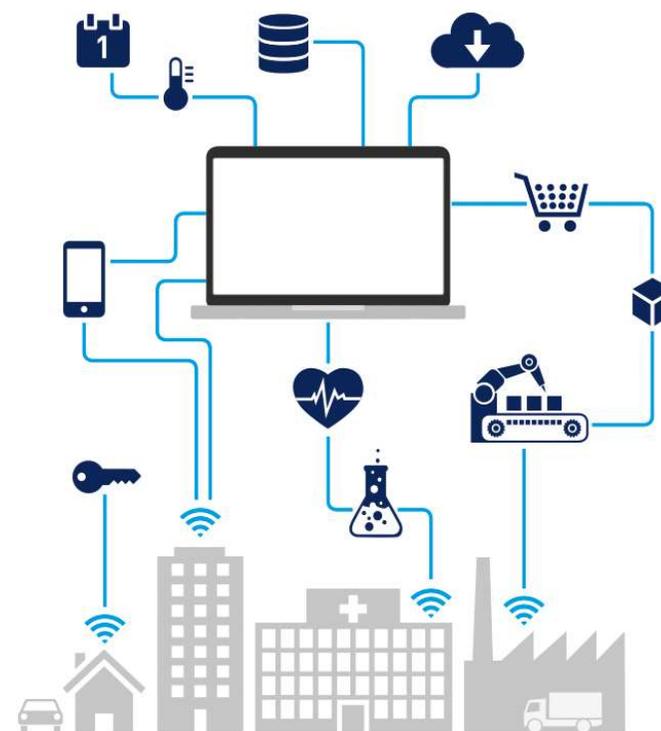
- Штаб-квартира в Нюрнберге, Германия
- Основана в 1997 г.
- Более 250 сотрудников (и их число растет...) из 30 разных стран
- Частное владение и финансирование
- Свыше 200 000 установок по всему миру



Наша миссия



IT инфраструктура



IoT инфраструктура

У нас нет клиентов.
У нас есть поклонники.

46% Да,
я уже
рекомендовал
PRTG!



33% Да,
Определенно!

17% Да, очень
вероятно

4% Нет / не знаю

Roadmap

WORKING ON

Major improvements for PRTG Desktop app ▼

Amazon Web Services (AWS) cost sensor ▼

WMI battery sensor ▼

Improved Fujitsu System Health sensor ▼

Japanese language update ▼

PLANNED

Microsoft Office 365 health sensor ▼

Microsoft Azure cost sensor ▼

Support for secure LDAP ▼

Nutanix sensor ▼

MQTT subscribe sensor ▼

Send MQTT notifications ▼

HPE 3PAR sensor ▼

SNMP BGP peer sensor ▼

LOOKING AT

Better tables in the web interface ▼

Better graphs in the web interface ▼

New Maps designer ▼

Azure AD authentication ▼

Further authentication options ▼

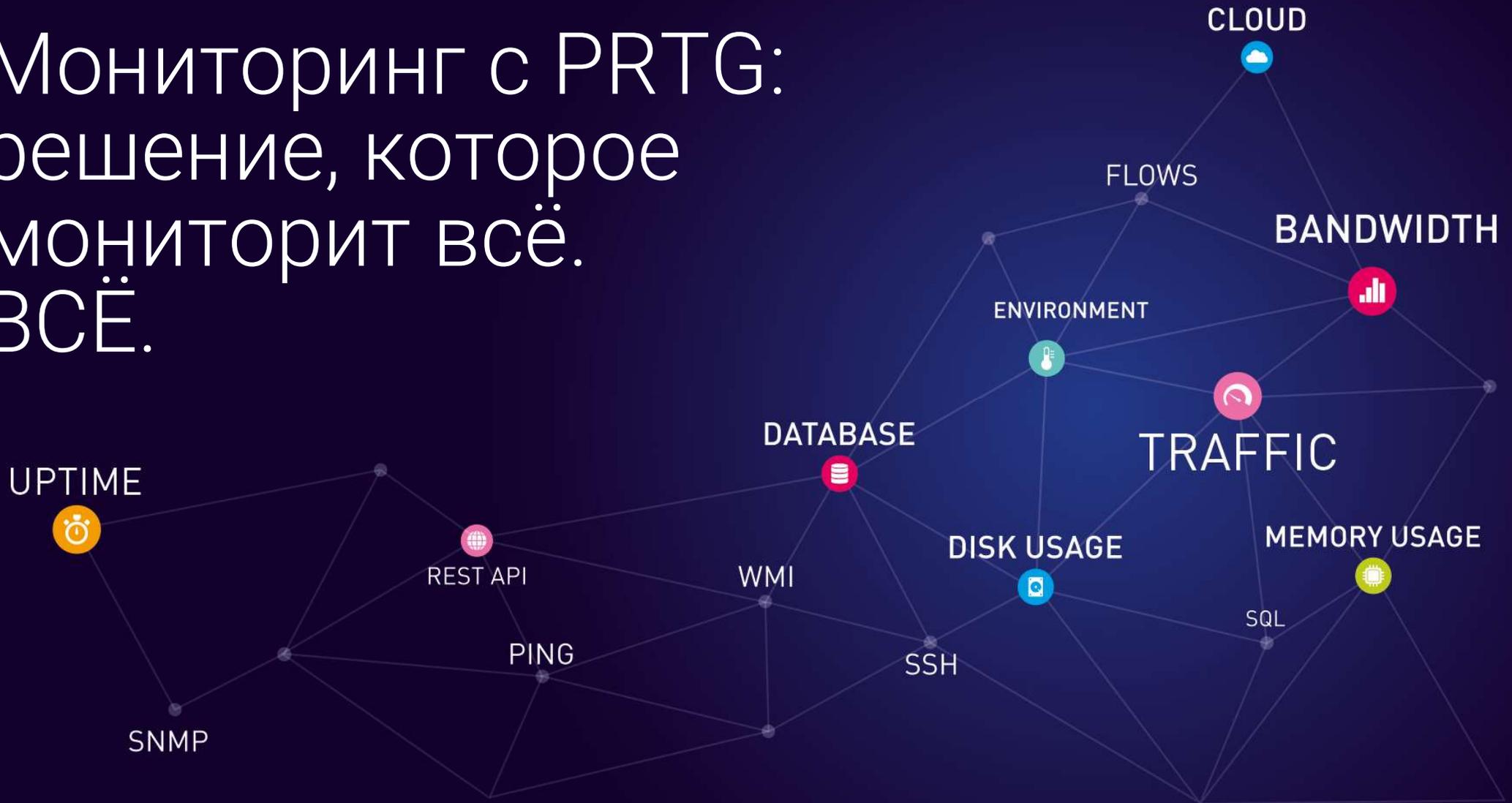
New REST Custom sensor ▼

Soffico Orchestra sensor ▼

New API ▼

OPC UA sensor ▼

Мониторинг с PRTG: решение, которое МОНИТОРИТ ВСЁ. ВСЁ.



Спасибо! Вопросы?



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