

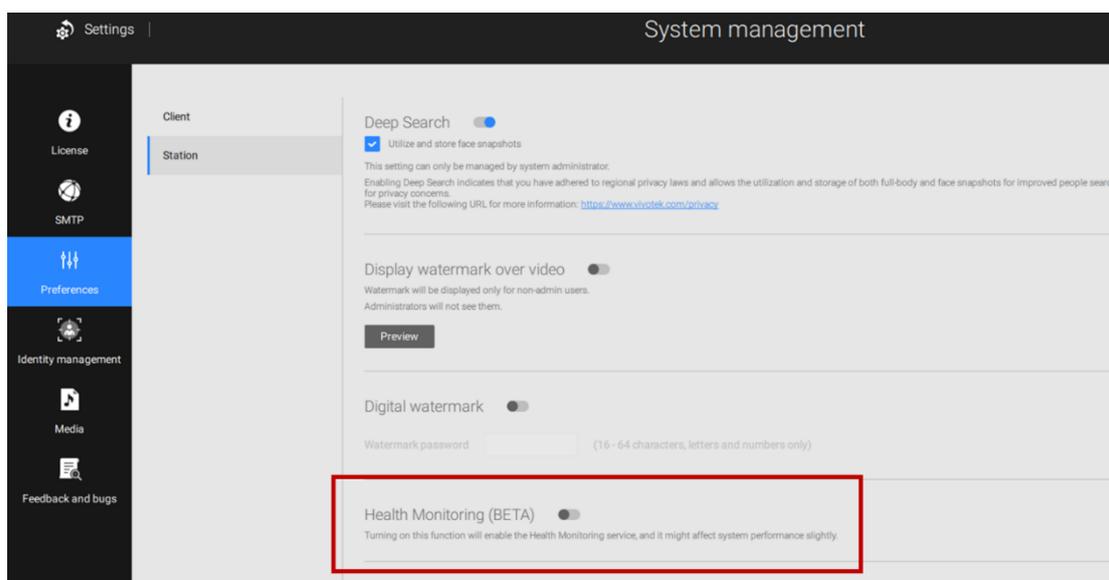
Health Monitoring (BETA)

This feature provides users with an overview of the current health status of IP cameras, connected ND-NVRs, NR-NVRs, and L2 switches within the system. It records and reports instances of high CPU usage, detected hard drive issues, abnormal connection counts, and unusual password error occurrences. Additionally, it offers basic troubleshooting functionalities.

This feature is only available in VSS Pro. here are the setup steps:

To set up Health Monitoring:

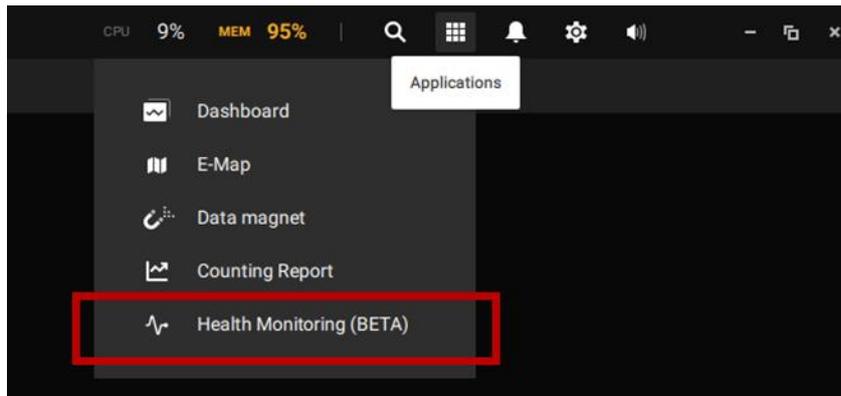
Enable Health Monitoring in VSS Preferences.



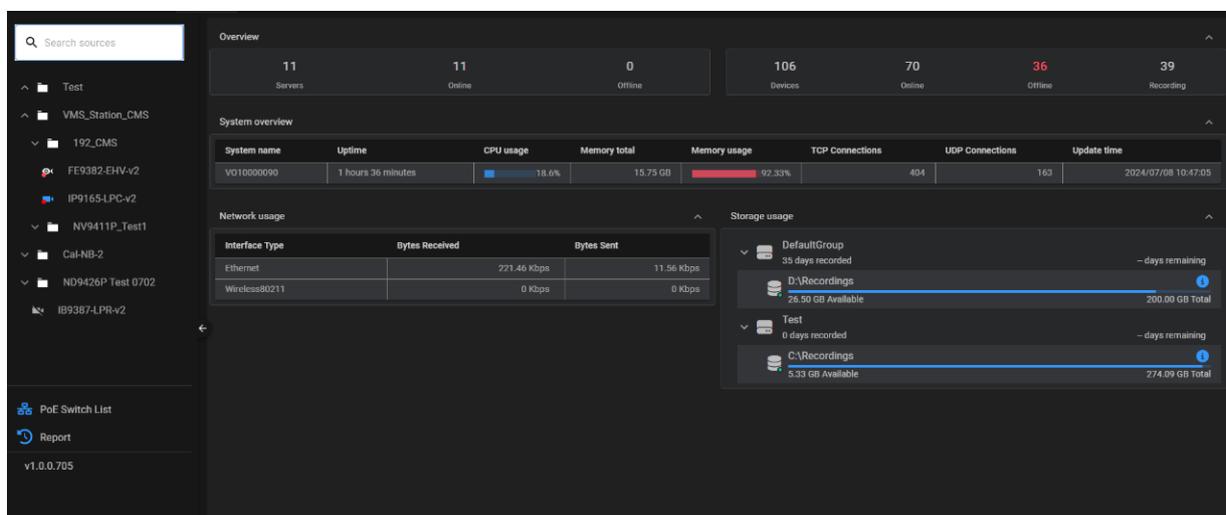
Health Monitor service uses port 5060.

For remote access, ensure this port is open in the firewall.

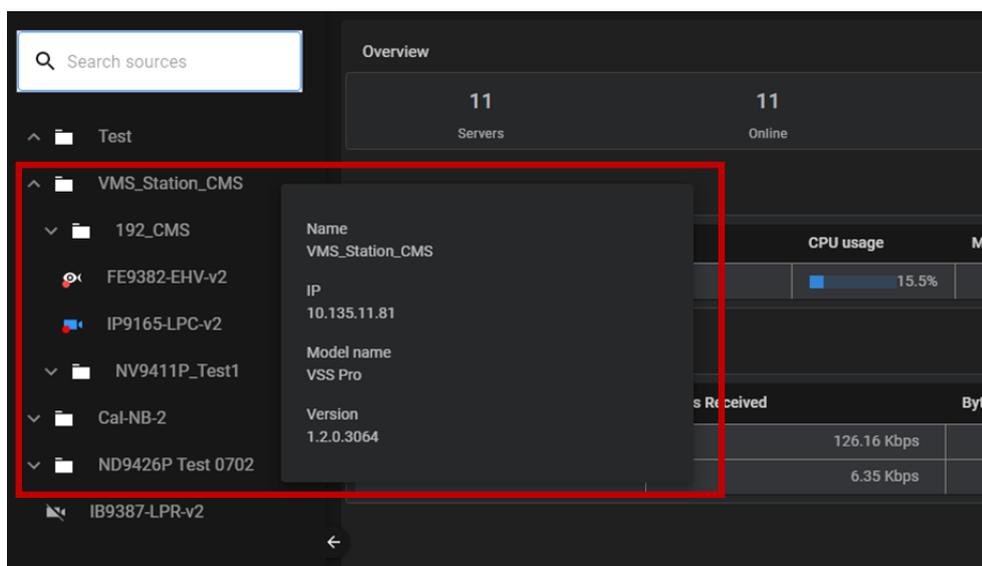
On the main screen, select Applications > Health Monitoring (Beta).



The displayed screen is the main screen of Health Monitoring.



On the left side is the list of devices added to VSS, including their basic information.



On the right side is the status overview.

The Overview dashboard displays the following metrics:

- Servers:** 11 Online, 0 Offline
- Devices:** 106 Online, 35 Offline, 39 Recording

System overview table:

System name	Uptime	CPU usage	Memory total	Memory usage	TCP Connections	UDP Connections	Update time
VO1000090	1 hours 47 minutes	15.6%	15.75 GB	90.87%	420	163	2024/07/08 10:57:40

Network usage table:

Interface Type	Bytes Received	Bytes Sent
Ethernet	697.2 Kbps	33.2 Kbps
Wireless80211	93.49 Kbps	0 Kbps

Storage usage:

- DefaultGroup:** 35 days recorded, 200.00 GB Total
- D:\Recordings:** 26.49 GB Available
- Test:** 0 days recorded, 274.09 GB Total
- C:\Recordings:** 4.61 GB Available

Clicking on a device or server will display the latest status and historical records of the monitored equipment.

The Servers list view displays the following table:

Name	Model	Server	IP	Status	Version	Time
Test	VSS Pro	Test	127.0.0.1:3443	ONLINE	1.2.0.3100	2024/7/8 上午 10:57:50
VMS_Station_CMS	VSS Pro	Test	10.135.11.81:3443	ONLINE	1.2.0.3054	2024/7/8 上午 10:57:50
192_CMS	VSS Pro	VMS_Station_CMS	10.42.2.71:3443	ONLINE	1.2.0.2000	2024/7/8 上午 10:57:50
Ca-NB-2	VSS Pro	192_CMS	10.42.2.146:3443	ONLINE	1.2.0.3000	2024/7/8 上午 10:57:50
ND9542P_Jess	ND9542P	Ca-NB-2	10.42.2.35:443	ONLINE	4.6.0.2	2024/7/8 上午 10:57:50
NV9411P_Test1	NV9411P	192_CMS	10.42.2.162:443	ONLINE	3.4.101.12k	2024/7/8 上午 10:57:50
ND9542P_Jess	ND9542P	192_CMS	10.42.2.35:443	ONLINE	4.6.0.2	2024/7/8 上午 10:57:50
NV9411P_Test1	NV9411P	VMS_Station_CMS	10.42.2.162:443	ONLINE	3.4.101.12k	2024/7/8 上午 10:57:50

Depending on the connected device, the items displayed may vary slightly.

The Devices list view displays the following table:

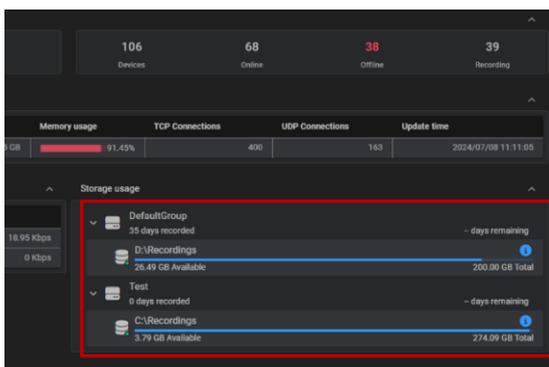
Name	Model	Server	IP	Status	Recording	Time
FD9365-EHTV-v2	FD9365-EHTV-v2	192_CMS	172.18.150.80:80	ONLINE	Yes	2024/7/8 上午 11:02:49
FD9389-EHTV-v2	FD9389-EHTV-v2	192_CMS	10.66.108.19:80	ONLINE	Yes	2024/7/8 上午 11:02:49
IB9387-LPR	IB9387-LPR	192_CMS	10.66.108.54:80	OFFLINE	No	2024/7/8 上午 11:02:49
IB9389-EHT-v2	IB9389-EHT-v2	192_CMS	10.66.108.117:80	ONLINE	No	2024/7/8 上午 11:02:49
IB839-EH	IB839-EH	192_CMS	10.66.108.27:80	ONLINE	Yes	2024/7/8 上午 11:02:49
FE9382-EHV-v2	FE9382-EHV-v2	192_CMS	10.66.108.20:80	ONLINE	Yes	2024/7/8 上午 11:02:49
SC9133-RTL	SC9133	192_CMS	172.20.1.90:80	ONLINE	No	2024/7/8 上午 11:02:49
MS9321-EHV-V2	MS9321-EHV-V2	192_CMS	10.66.107.109:80	ONLINE	Yes	2024/7/8 上午 11:02:49

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When paired with a supported VIVOTEK L2 Switch, if a camera goes OFFLINE, you can use the Reboot function to power cycle the corresponding PoE Port in an attempt to restart it.

Name	Model	Server	IP	Status	Recording	Time
FD9365-EHTV-v2	FD9365-EHTV-v2	192_CMS	172.18.150.80:80	✓ ONLINE	Yes	2024/7/8 上午 11:07:50
FD9389-EHTV-v2	FD9389-EHTV-v2	192_CMS	10.66.108.19:80	✓ ONLINE	Yes	2024/7/8 上午 11:07:50
IB9389-EHT-v2	IB9389-EHTV-v2	192_CMS	10.66.108.117:80	✓ ONLINE	No	2024/7/8 上午 11:07:50
IB839-EH	IB839-EH	192_CMS	10.66.108.27:80	✓ ONLINE	Yes	2024/7/8 上午 11:07:50
FE9382-EHV-v2	FE9382-EHV-v2	192_CMS	10.66.108.20:80	✓ ONLINE	Yes	2024/7/8 上午 11:07:50
SC9133-RTL	SC9133	192_CMS	172.20.1.90:80	✓ ONLINE	No	2024/7/8 上午 11:07:50
MS9321-EHV-V2	MS9321-EHV-V2	192_CMS	10.66.107.109:80	✓ ONLINE	Yes	2024/7/8 上午 11:07:50

For hard drive detection, clicking on the hard drive icon will display the current SMART information of the hard drive.

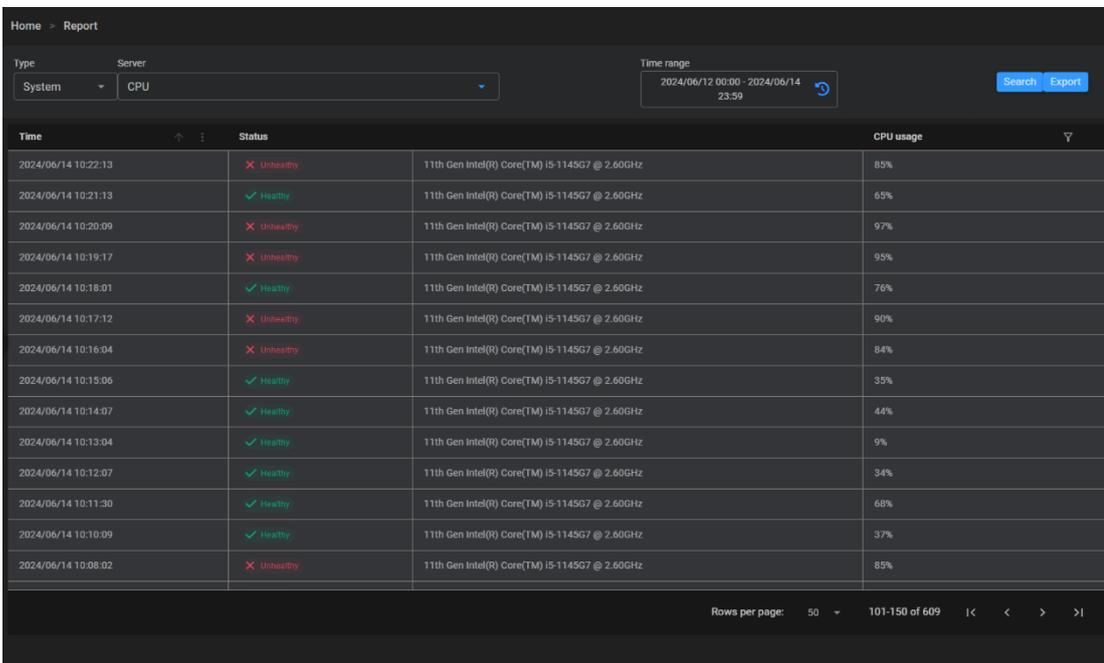


Health	ID	Attribute	Current	Worst	Threshold	Data
●	5	Reallocated sector count	85	0	0	0
●	9	Power-on hours	100	0	0	5815
●	12	Power cycle count	100	0	0	95
●	174	Unexpected power loss count (SSD)	100	0	0	9
●	187	Reported Uncorrectable Errors	100	0	0	0
●	190	Airflow Temperature	53	53	16	47
●	232	Endurance Remaining	100	100	50	0
●	241	Total LBAs Written	100	0	0	79946713
●	242	Total LBAs Read	100	0	0	149620360

When searching historical records in Search, you can filter by device type and time period to perform the search.

The system will generate corresponding reports based on the search results.

You can export a CSV file here into the VSS folder.



Home > Report

Type: System Server: CPU Time range: 2024/06/12 00:00 - 2024/06/14 23:59 Search Export

Time	Status	CPU usage
2024/06/14 10:22:13	Unhealthy	85%
2024/06/14 10:21:13	Healthy	65%
2024/06/14 10:20:09	Unhealthy	97%
2024/06/14 10:19:17	Unhealthy	95%
2024/06/14 10:18:01	Healthy	76%
2024/06/14 10:17:12	Unhealthy	90%
2024/06/14 10:16:04	Unhealthy	84%
2024/06/14 10:15:06	Healthy	35%
2024/06/14 10:14:07	Healthy	44%
2024/06/14 10:13:04	Healthy	9%
2024/06/14 10:12:07	Healthy	34%
2024/06/14 10:11:30	Healthy	68%
2024/06/14 10:10:09	Healthy	37%
2024/06/14 10:08:02	Unhealthy	85%

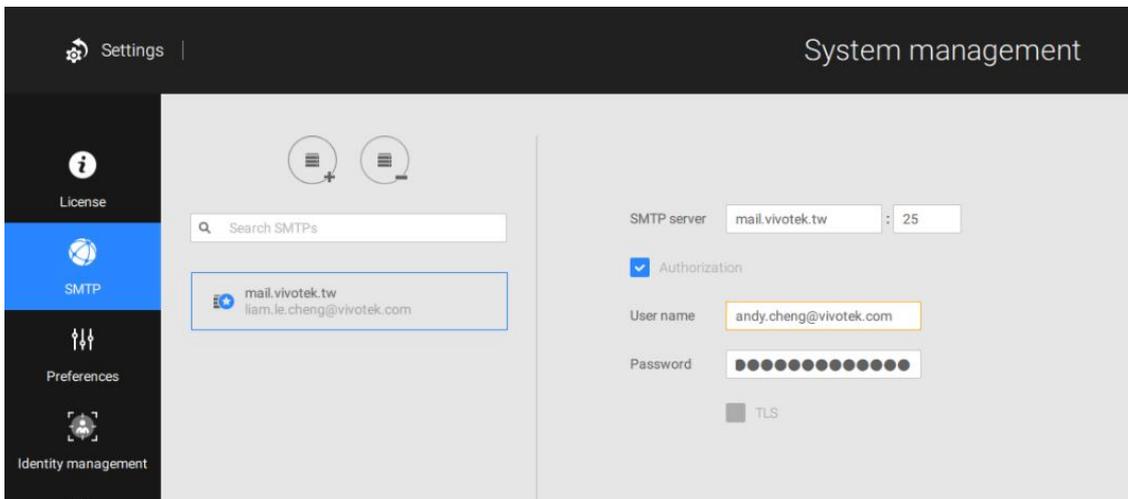
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Email Notification for Anomalous Events

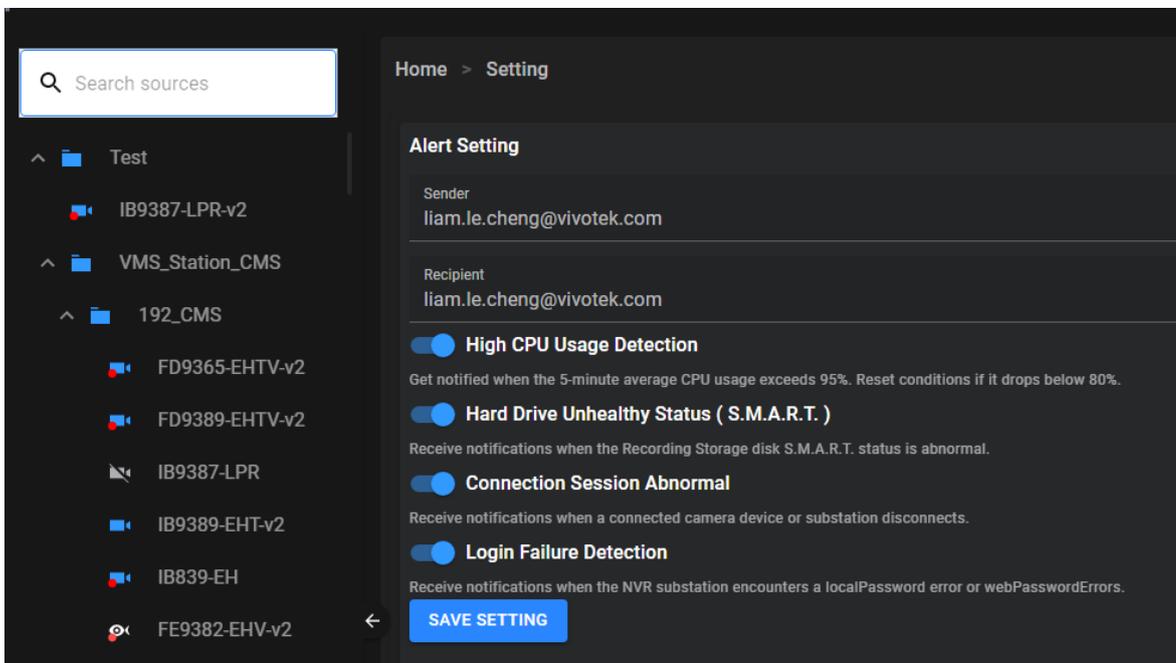
Currently, the system supports event notifications for the following statuses:

- High CPU usage detection
- HDD unhealthy status
- Connection session abnormal
- Login failure (NVR)

To enable email notifications for anomalous events, you need to first configure SMTP settings within VSS.



Afterward, you can configure which events will trigger email notifications within Health Monitor.



When an event occurs, the user will receive the corresponding notification.

