

How to be alerted when others are asleep

incl. SNAG-View Integration



Your Gateway to Unbreakable Communication



Who am I ?

Radoslaw Janowski

Background in telecommunication & software engineering.
Working on the front lines of complex IT project management,
software development & systems integration.

Currently CEO of **SMS**Eagle.

Happy father & smart-home geek 😊

Case Study – De Dietrich



Origin: Founded in 1684, with a history in the Jaegerthal forge.

Global Presence: Asia, Europe, and the USA.

Current Focus: Now specializes in process equipment, particularly for the chemical and pharmaceutical industries.

Case Study – De Dietrich

Challenges: Sending critical alerts for accelerated issue resolution

“That’s great if you’re sitting in front of the monitor but if the issue is serious, you need to be able to contact the relevant people as quickly as possible at any time of the day or night.”



Pascal Muckensturm

Information System Architect
De Dietrich

Why we need to address **after-hours alerting** issue



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Outages & downtime

According to the Uptime Institute's 2023 report, a significant number of IT and data center **outages occur outside of regular business hours**.

This can lead to prolonged downtime, affecting critical services and leading to significant financial and reputational damage. More than two-thirds of all outages cost over \$100,000, with some severe outages costing millions ¹

Source:

¹[Annual Outage Analysis 2023.pdf \(uptimeinstitute.com\)](#)



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Cybersecurity Breaches

34% of businesses reported their most disruptive breach outside their organization's normal working hours ².

Source:

² [Cyber security breaches survey 2024 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/statistics/cyber-security-breaches-survey-2024)



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So,
what can you do?



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Challenges of After-Hours Alerting

Continuous alerts can lead to burnout.

Delays in response.

Difficulty in identifying critical vs. non-critical alerts.



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Best Practices for After-Hours Alerting

Priority Levels: Categorize alerts by severity

Automated Escalation: Ensure critical alerts are escalated automatically

On-Call Rotation: Establish a clear on-call schedule with backups



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Tools for After-Hours Alerting

Monitoring Systems: like SNAG-View

Unified XDR and SIEM: opensource Wazuh, commercial tools (Splunk, Logrhythm, etc.)

Automated Alert Escalation (with priorities)



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**But what is
the most important?**



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Right communication channels!

On average, people check their phones 96 times per day (once every 10 minutes), according to a 2021 survey by Asurion. This frequency suggests that people keep their phones within easy reach most of the time.



Emails



Phone!

Phone: SMS

*SMS messages have a read rate of **98%**, according to a study by MobileSquared.*

*90% of SMS messages are read **within 3 minutes** of being received.*



Phone: Wake-up Calls

r/sysadmin "OnCall - how do you wake up?"

ThatNAST · 1y ago

I put my phone in DND mode and only allow my immediate family and the number related to the on-call service to come through. Then, I set it to be max volume for ringing and set the most annoying alarm. I actually have PTSD and have nightmares about getting a call even when I'm not on call. It's great.

 110   Award  Share ...



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Phone: Voice Calls

Combine wake-up calls efficiency and carry an information about the critical incident



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Voice Call examples



The Node Pros-ARM-01 is currently down.
Priority = Critical. Site = Worthing HQ. Device Role = Infra
Management



Warnung für Gerät 172.30.4.20 - Sensor über Grenzwert -
Gerätezustandseinstellungen bitte überprüfen.

NEW TTS engine!

This is why

Global Leader De Dietrich decided to Utilize SMSEagle for Alarms Escalation in their Network Monitoring System, to achieve reliable, Internet independent communication.



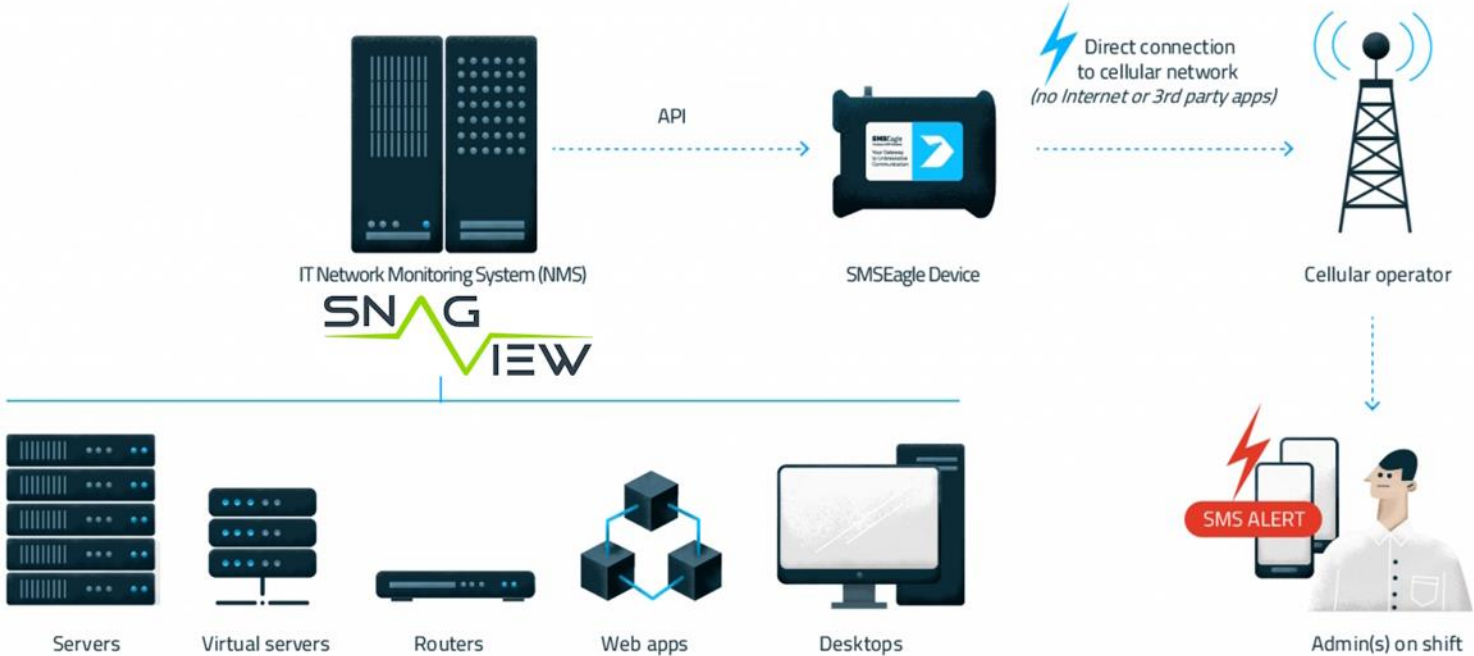
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*“We’ve been using **SMSEagle** for more than two years, and it’s definitely helped our support teams to be more responsive when alerted. It’s also helped us streamline our alerting workflow and improve the overall control and security of the system ”*



Pascal Muckensturm
Information System Architect
De Dietrich

How to implement SMS Eagle



Example alerting configuration in **SNAG-View**

The screenshot displays the 'Create Execution' configuration page in the SNAG-View application. The interface is divided into two main sections: 'GENERAL INFORMATION' and 'SMSEAGLE'.

GENERAL INFORMATION

- TYPE***: SMSEagle
- NAME***: SMS
- DESCRIPTION***: SMS Endpoint

SMSEAGLE

- IGNORE INSECURE CERTIFICATE***:
- NOTIFICATION TYPE**: Send message Call phone
- CALL TYPE**: Ring phone tts
- MESSAGE***: `$ACTION.TYPES: $DEVICE.NAMES / $SENSOR.NAMES is $SENSOR.STATES`
- FLASH MESSAGE***:

At the top right of the configuration area, there are two buttons: 'Cancel' and 'Create Execution'.

Example alerting configuration

The screenshot displays the configuration page for a rule named "Rule: SMS" (Object ID: 1, last updated 12s ago). The interface is divided into three main sections: "GENERAL INFORMATION", "SENSOR FILTER", and "ESCALATION".

- GENERAL INFORMATION:** The rule name is "SMS". The "ACTIVE" toggle is turned on. Other options like "SEND RECOVERY MESSAGE" and "CONSIDER PAST" are also visible.
- SENSOR FILTER:** The filter is set to "active is true". A "Simulate" button is present. Below the filter, there are several status categories with corresponding toggle switches: OK (off), WARNING (on), CRITICAL (on), UNKNOWN (on), DOWNTIME (off), and ACKNOWLEDGED (off).
- ESCALATION:** The escalation policy is "24x7" with a duration of "5 min - ∞". An action is configured to send an SMS via "smseagle".

At the top right of the configuration area, there are buttons for "Cancel", "Save Changes", and a dropdown menu.

And some more features

- Escalation
- Failover cluster
- Temperature/water leak monitoring

This is how
SMSEagle can solve the problem of
afterwork hours alerting



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But not only this



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**It works in
offline/isolated
environments**



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Notable clients



MOTOROLA
SOLUTIONS

PHILIPS



Blue Sky
STUDIO



Honeywell



HARIBO



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Other use cases

Send **SMS alerts** from Network Monitoring System in **secure offline (no-Internet) scenario**

Send SMS **OTP codes** from Authentication Systems

Send SMS **from cloud** applications securely using Email to SMS Poller

Send **SMS alerts** when the **temperature** threshold is exceeded

Built-in Features

Sending & Receiving SMS (managing messages with Inbox, Outbox, Sent Items)

Support of **different message types** (normal SMS/multipart SMS/flash SMS/MMS/binary SMS/USSD-code/WAP Push link)

Unicode support (support of national characters)

Sending to single users or groups of users

Sending SMS at specified date and time (SMS scheduling)

Limit sending to **specified hours** (for example between 08:00-18:00)

Smartphone-like conversation mode (messages are nicely grouped by phone number).

You can easily track history of what you send and receive to each user

Message templates

Multiuser support (each user has access to a private Outbox, Sent Items) and different user access levels

Phonebook (single users, groups)

LDAP integration of phonebook

LDAP Authentication

Importing contacts and groups from CSV file

Monitoring services (eg Web server, Mail server, SNMP) and **SMS alerting**

Auto-reply to incoming SMS (multiple autoreply rules)

Email to SMS forwarding

SMS to Email forwarding

Email2SMS Poller for converting incoming email to SMS messages

Voice Calls (wake-up calls and text-to-speech calls) – available with VOICE add-on

Subscriptions for newsletter-style subscriptions via SMS

Periodic SMS to send SMS messages at a desired time interval

Callback URL to forward incoming message to a defined URL address/webservice

Blacklist feature to exclude numbers

Shift management to assign Phonebook contacts to working shifts

Forward incoming SMS to remote script (callback URL)

Outlook Plugin to send SMS directly from the app ([install](#))

Network Monitor for servers and services

Digital input and output controlled via SMS (for products in NXS-line of devices)

MQTT messaging protocol for IoT

Signal (beta) secure messaging app

SMPP protocol

Multi-Factor Authentication (MFA)

Message Escalation feature

Periodic folders cleanup

Automatic backup to FTP

Temperature & humidity SMS alerts (for products in NXS-line of devices)

Multilanguage (English, French, German, Polish, Spanish) web-interface

HTTP/HTTPS API for sending SMS from external applications & systems

NTP client installed

SNMP agent installed

HTTPS support

Delivery reports support

Watchdog mechanisms for 3G/4G modem (automatic modem health control)

Modem failover mechanisms (for products with 2 or more modems)

Device failover support – HA cluster of 2 devices possible

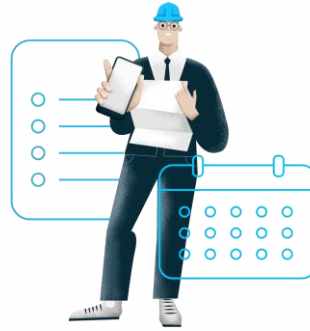


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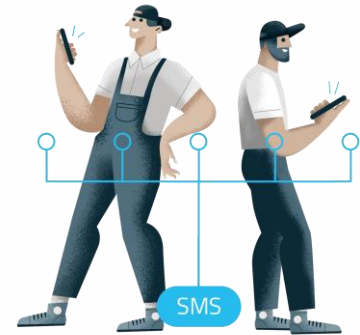
Summary



After-hours alerting is something we can't ignore.



Having right practices, tools, and the right communication channels makes a world of difference.



And don't forget, **spreading the load across your team** can prevent burnout.



Thank you

Contact me:

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Q&A session starts now

