

Argus - Aggregated Alarm Console

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Géant CNaaS
Infoshare - 28.04.2021

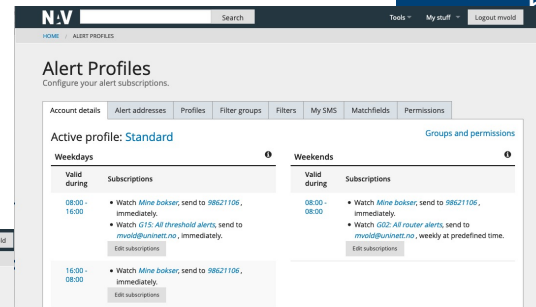
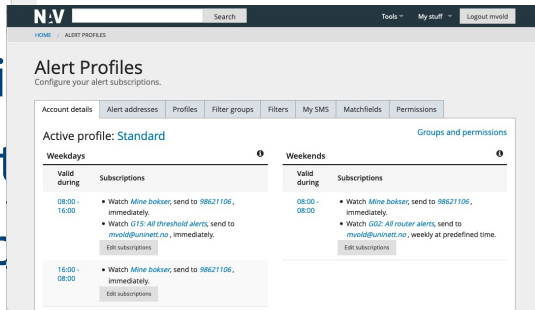
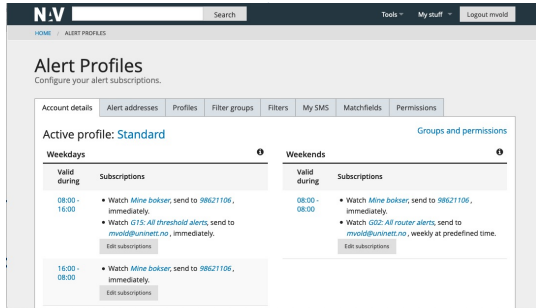
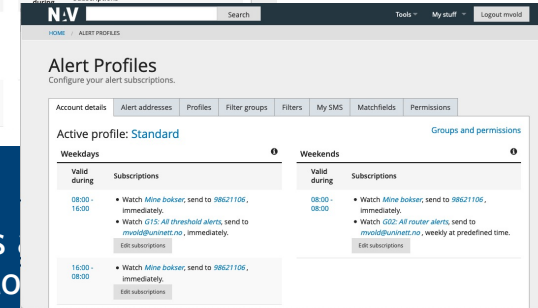
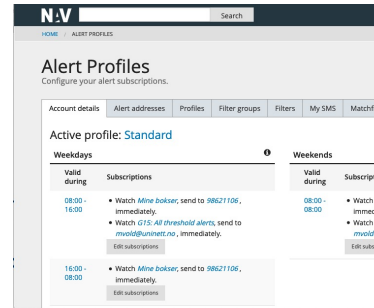
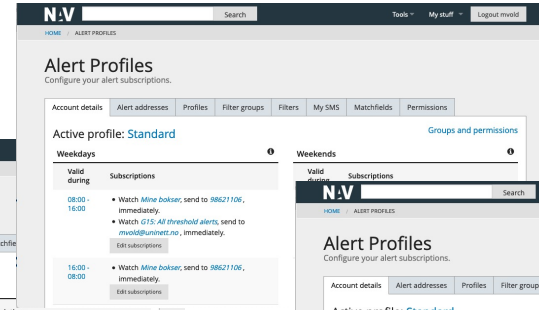
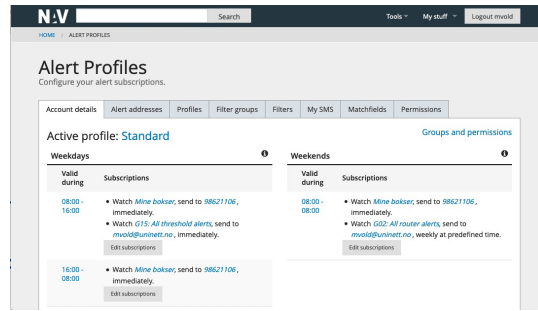
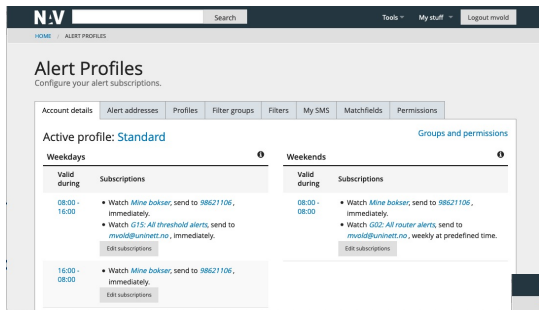
UNINETT

Alerts, alerts, alerts!

- ▶ Uninett CNaaS will use NAV for monitoring
- ▶ NAV is **not** multi-tenant
- ▶ One installation per customer is needed

- ▶ Gets unwieldy pretty quickly...

1. NAV is an open source campus network monitoring tool with a 21 year long history in the Norwegian HE sector.
2. NAV is developed by Uninett.
3. Uninett already provides customers with network management services based on NAV.

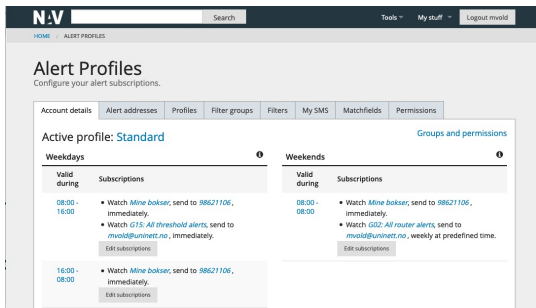
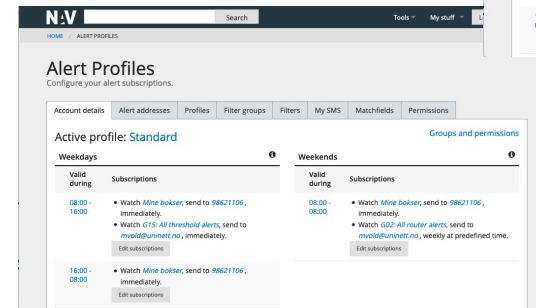
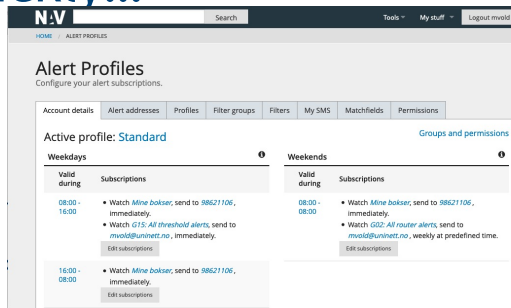


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monito
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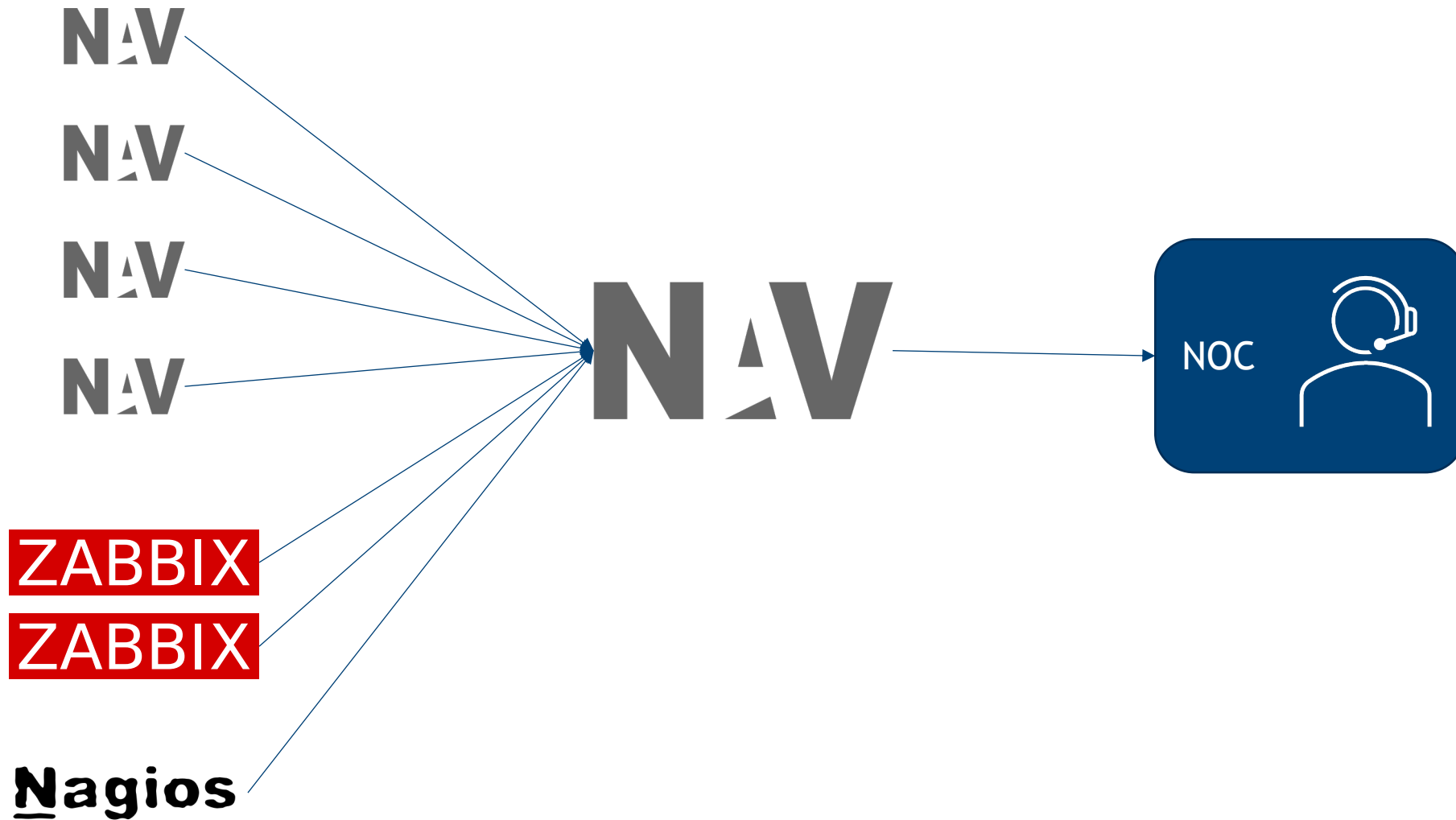
➤ Uninett CaaS with

Multi-
on p

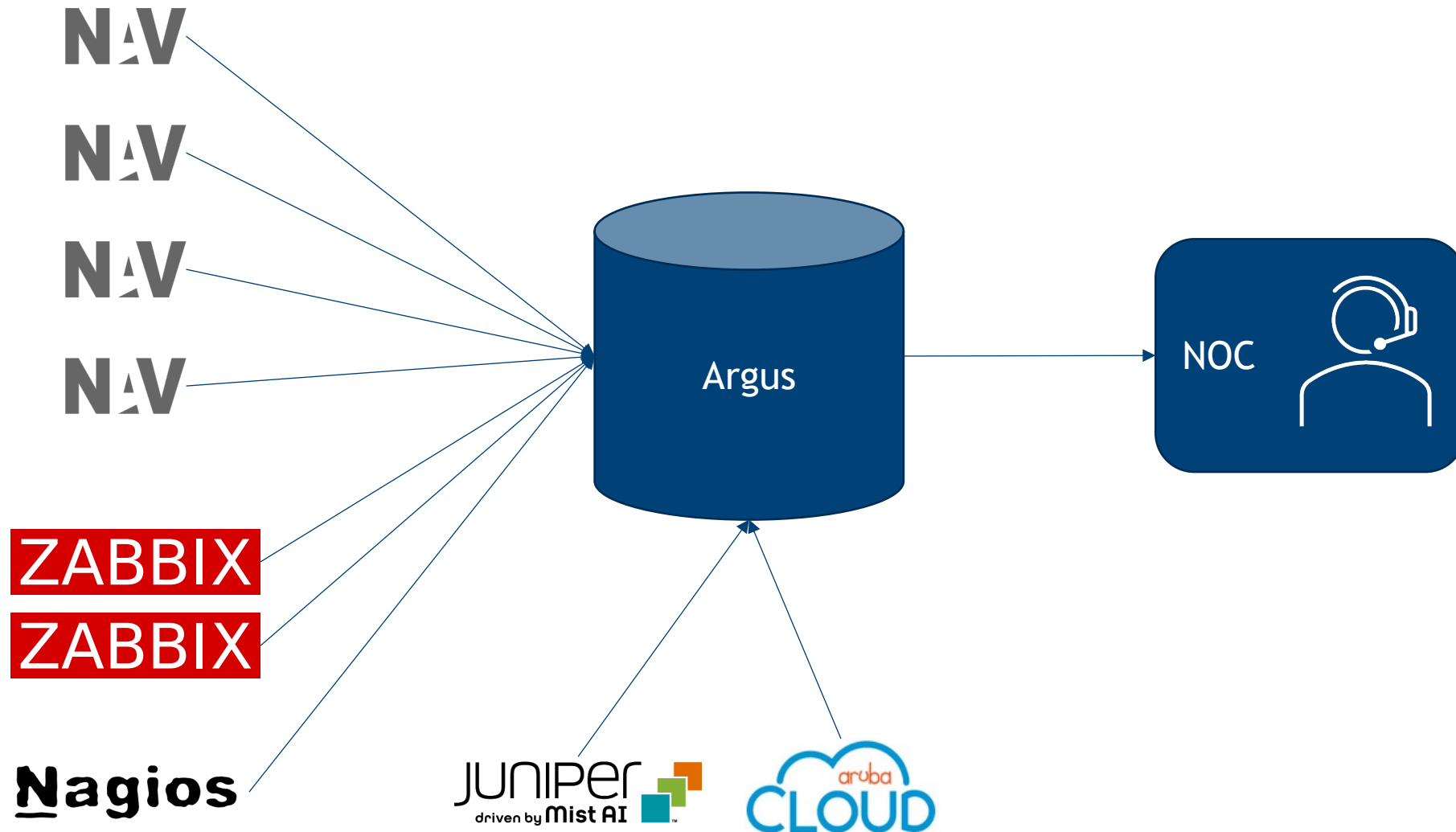
pretty quickly...

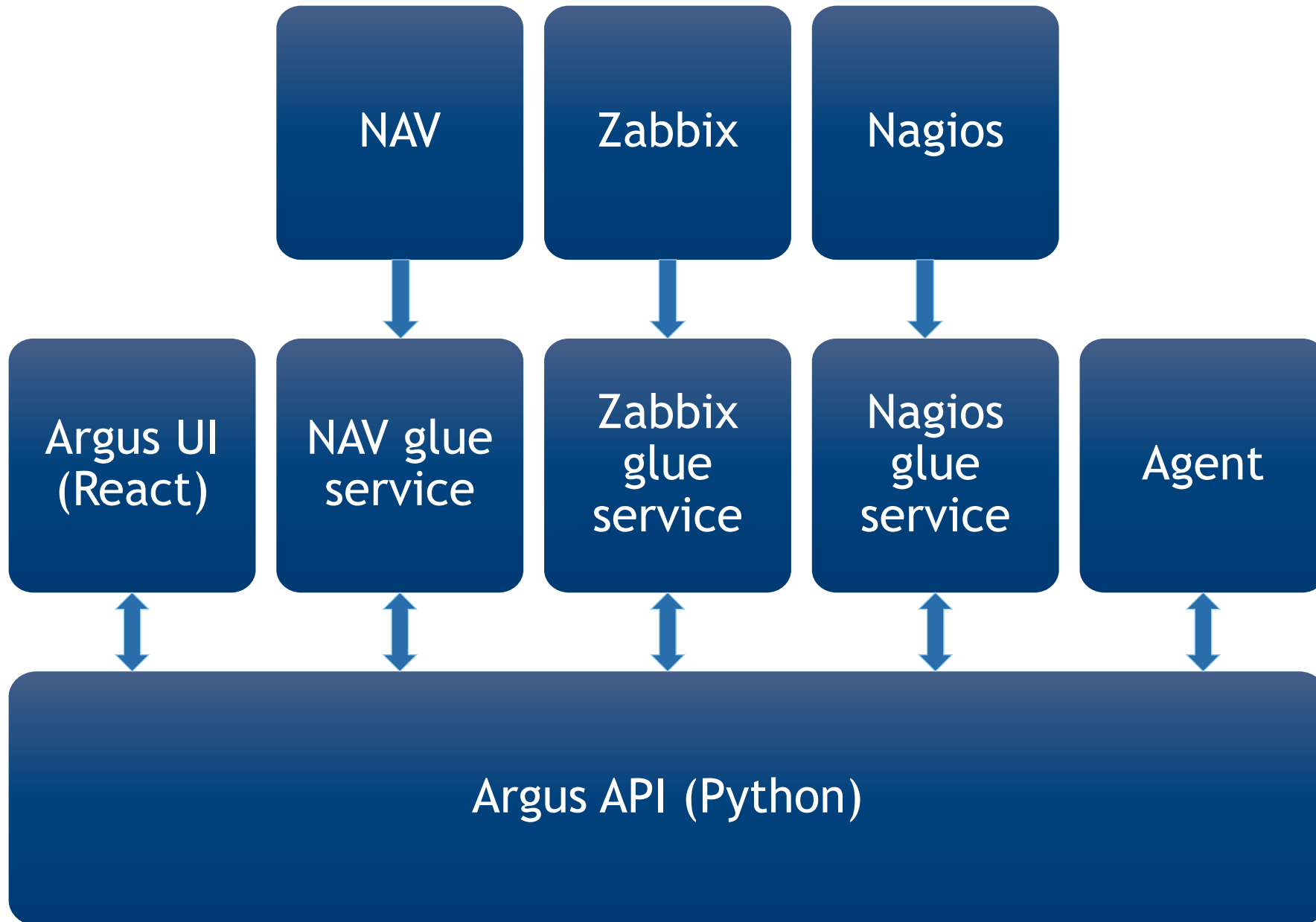


Idea 1: Re-use NAV



Idea 2: Something new!







INCIDENTS

TIMESLOTS

PROFILES

M
Morten

Open State

OPEN

CLOSED

BOTH

Acked

UNACKED

BOTH

Sources

Source name

Press enter to add new source

Tags

kundetjeneste=Campus_CNaaS key=value

Press enter to add new tag

Filter

CNaaS

Select from your filters

Incidents

	Timestamp	Status	Source	Description	Actions
<input type="checkbox"/>	2021-04-04 16:37	Open Non-acked	lokalnav.uninett.no	uninett-gsw2 BGP session with 158.38.3.112 is DOWN	
<input type="checkbox"/>	2021-04-04 16:32	Open Non-acked	lokalnav.uninett.no	uninett-gsw1 BGP session with 158.38.3.112 is DOWN	
<input type="checkbox"/>	2020-08-03 15:12	Open Acked	unit-vk.c.uninett.no	2001:700:5701::2 BGP session with 158.36.4.14 is DOWN	
<input type="checkbox"/>	2020-04-01 09:14	Open Acked	lokalnav.uninett.no	Service ssh on buick.lab.uninett.no is down since 2020-04-01 09:14:33	

Rows per page: 100 1-4 of 4

Last refreshed 2021-04-28 12:46:01 updating every 30

Status

Open

Acknowledged

Ticket <https://rt.uninett.no/Ticket/Display.html?id=226759>

Tags

event_type=bgpState

alert_type=bgpDown

kunde=unit.no

host=2001:700:5701::2

room=Teknobyen-5etg-sør

location=unittrd

kundetjeneste=Campus_CNaaS

Acknowledgements

RT 226759

gjewig@uninett.no

11/25/2020, 08:22:02

CREATE ACKNOWLEDGMENT

Related events

Incident start

2001:700:5701::2 BGP session with 158.36.4.14 is DOWN

unit-vk.c.uninett.no

8/3/2020, 15:12:56

Primary details (#1296)

Description

2001:700:5701::2 BGP session with 158.36.4.14 is DOWN

Start time

8/3/2020, 15:12:56

Duration

8 months

Source

unit-vk.c.uninett.no

Details URL

<https://unit-vk.c.uninett.no/search/event/334>

Ticket

<https://rt.uninett.no/Ticl>

EDIT 

CLOSE INCIDENT

Notifications

Active: Timeslots: On Duty | v Filtername: CNaaS boxDown x | v Media: SMS x | v Phone number: +4799999999 | v

- Each user can configure a personal notification profile
 - Filters define which alerts are interesting
 - Timeslots decide when notifications are desirable
- E-Mail and SMS notifications are supported
- More mediums will come:
 - Slack
 - Teams

Timeslot name *

All the time

SAVE

DELETE

+ ADD RECURRENCE

REMOVE

All day

Start time picker



End time picker



Days

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday



Timeslot name *

Working hours

SAVE

DELETE

+ ADD RECURRENCE

REMOVE

All day

Start time picker

08:00



End time picker

16:00



Days

Monday

Tuesday

Wednesday

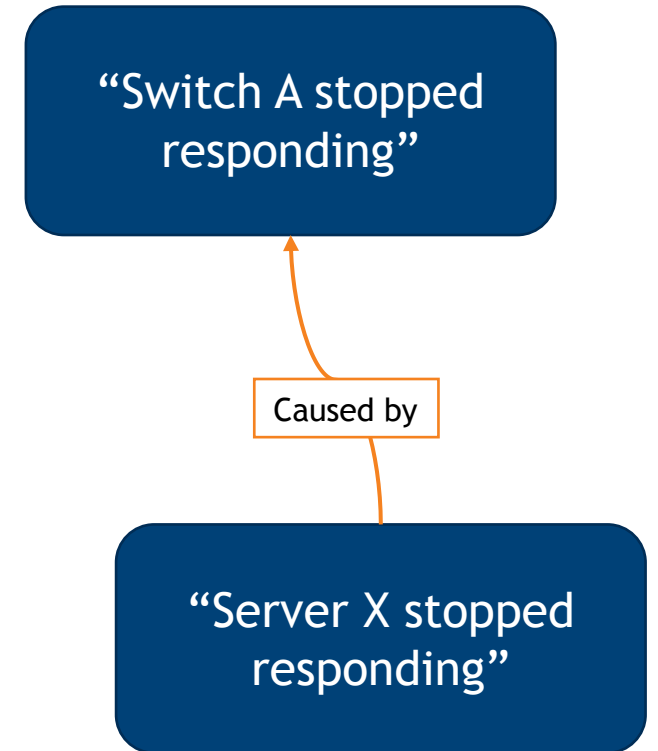
Thursday

Friday



Incident relationships

- ◆ Incidents may be related, somehow...
 - "Same root cause"
 - "Same issue reported by two separate source systems"
 - "One issue is caused by the other"
- ◆ These relations can be added
 - Manually (although, not quite yet)
 - By an external agent



Argus status, April 2021

- ◆ Argus is already being used in production at Uninett, with 4 CNaaS customers (and more coming up)
- ◆ We are currently in the process of writing glue services for
 - Zabbix
 - Zino
- ◆ We are currently testing glue services for:
 - Mist AI (Juniper's cloud-based control plane for WiFi APs)
 - Aruba Mobility Master (Aruba's cloud-based control plane for WiFi Aps)
- ◆ These glue services all use the existing Python API access library

Argus going forward...

- ◆ Implementing severity levels in the UI
- ◆ Improving the filter implementation
- ◆ Improving the notification implementation
- ◆ Actual integration with our ticketing system (Request Tracker)

- ◆ And, a lot of work deciding what should be mapped to incidents, and how...

Argus is free software

- Development is supported by Géant!
- You can try it out!
- You can contribute!
- Got questions? Get in touch!

opensource@uninett.no

References

- <https://argus-server.readthedocs.io/en/latest/>
- <https://github.com/Uninett/Argus>
- <https://github.com/Uninett/Argus-frontend>
- <https://github.com/Uninett/pyargus>

- <https://github.com/Uninett/nav-argus-glue>
- <https://nav.uninett.no/>



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