

SURF orchestration landscape

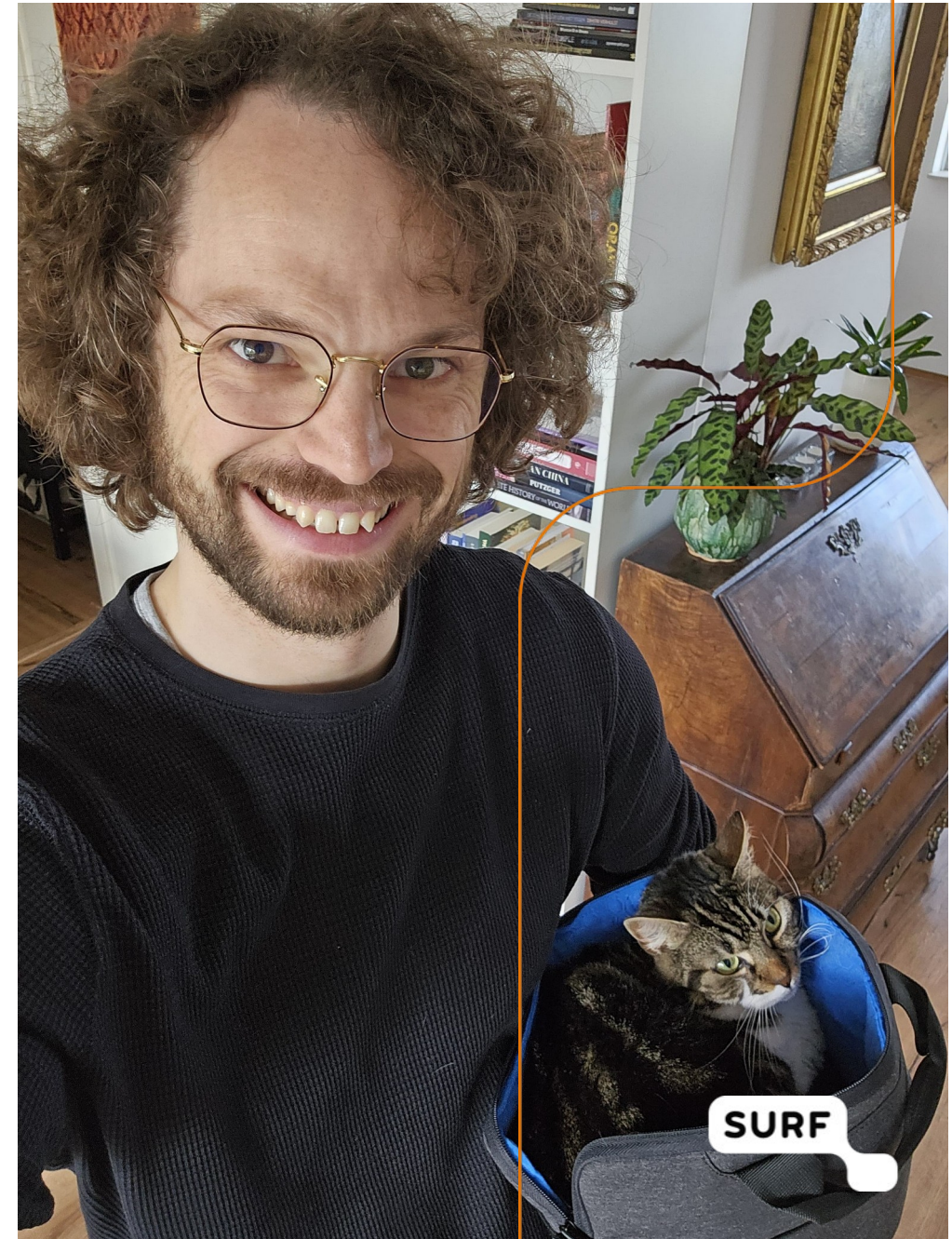
Arthur Nieuwland

TPM Network Dashboard / DevOps engineer

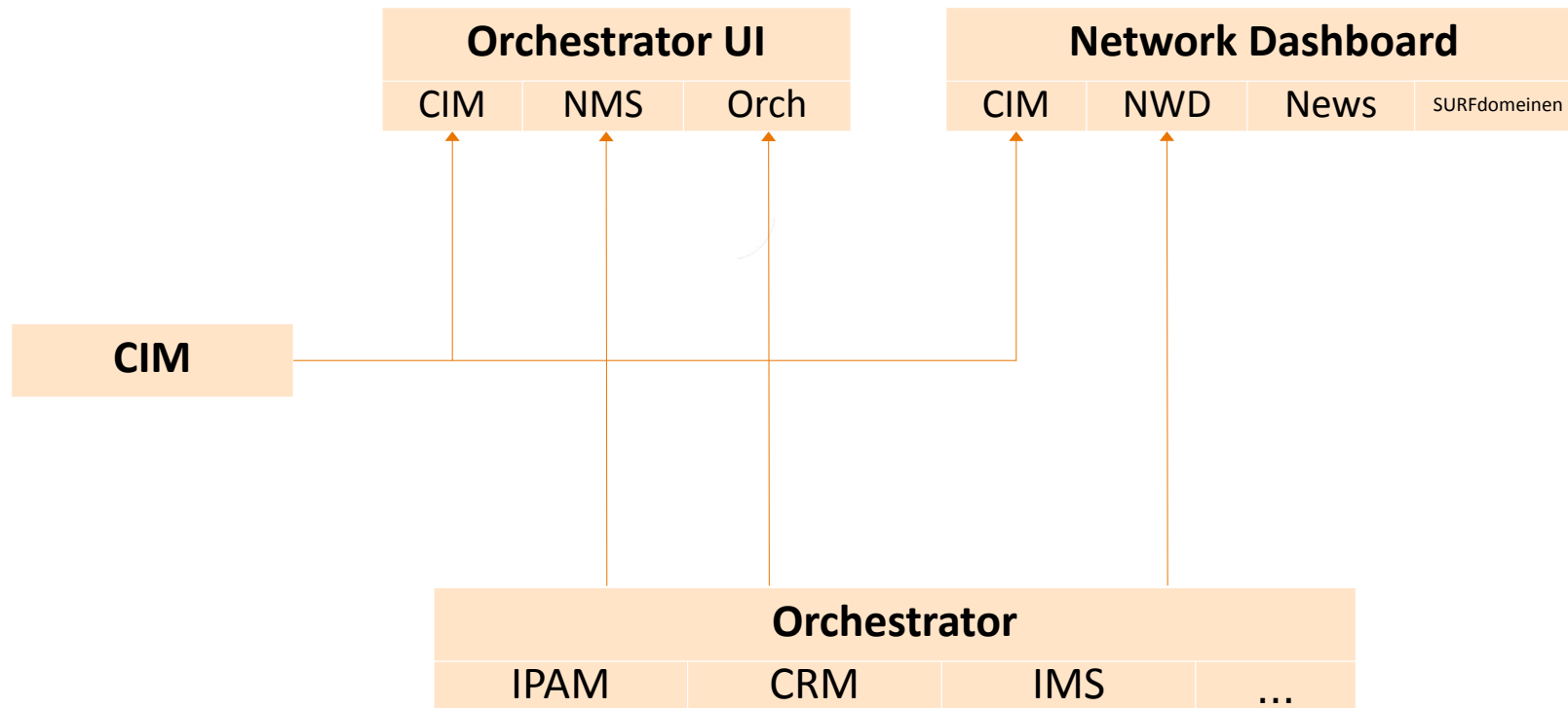
2 years at SURF

CompSci & History background

Dutch early modern recipes site cokyeren.nl



LANDSCAPE



+ Nieuwe subscription

Start

Chassis

Services

Klanten

Service-tickets

LIR-prefixes

Orchestrator

 [Start](#) / [Service-tickets](#)

Service tickets

+ Nieuw service ticket

ActiefVoltooid

Jira ticket	Prioriteit	Titel	Status	Geopend door	Starttijd	Eindtijd	Aangemaakt	Laatst aang↓
SNNP-100603		Fiberwerkzaamheden GEANT - LON (asd00	open	Mohamed Bouhssain	12-6-2025, 02:00:00	12-6-2025, 12:00:00	7-6-2025	7-6-2025
SNNP-100419		Fiberwerkzaamheden tussen ASD044A en f	open	René Visser	13-6-2025, 22:00:00	14-6-2025, 06:00:00	5-6-2025	5-6-2025
SNNP-98897		INSTALL - EHV010A - Eindhoven - Preventie	open	Brian Kok	12-6-2025, 19:00:00	12-6-2025, 21:00:00	4-6-2025	4-6-2025

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Start

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Services

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Orchestrator

 [Start](#) / [Service-tickets](#) / [dedf9787-0fb4-49e5-b16a-20179804fb28](#)

Fiberwerkzaamheden GEANT - LON (asd001b - lon001a)

 Stop

 Verstuur nieuwe e-mail

 Algemeen  Notificatie log  Verstuurde e-mails 1

Service ticket details

Titel	Fiberwerkzaamheden GEANT - LON (asd001b - lon001a)
Jira ticket	SNNP-100603
IMS planned work	SNNP-100603
Type	planned work
Starttijd	12-6-2025, 02:00:00
Eindtijd	12-6-2025, 12:00:00
Geopend door	Mohamed Bouhssain
Aangemaakt op	7-6-2025, 15:01:50

Overview

Malfunction & Maintenance

FILTER SERVICE

All services

FILTER TYPE

Planned maintenance

Malfunction

FILTER IMPACT

Resilience loss

Down time

Reduced redundancy

No impact

Reset filters

Activity in the future and in the last year

11 Aug 2024



Planned work - SNNP-97296

Registered on: 3 Aug 2024, 04:13

Add to calendar

The SURF NOC is going to perform upgrade work on multiple nodes. You can find the impact that applies to you under Affected Services.

12 Aug 2024, 04:49 The work has been successfully completed. SURF connections are fully operational again.

Start time
11 Aug 2024, 23:00

End time
12 Aug 2024, 06:00

Impact
No_impact & Down

Affected services
2 affected services

22 Aug 2024



Planned work - SNNP-97301

Registered on: 15 Aug 2024, 08:15

Add to calendar

The SURF NOC is going to perform upgrade work on a large number of nodes. You can find the impact that applies to you under Affected Services.

23 Aug 2024, 03:27 The work has been successfully completed. SURF connections are fully operational again.

Start time
22 Aug 2024, 23:15

End time
23 Aug 2024, 06:00

Impact
No_impact & Down

Affected services
2 affected services

29 Aug 2024



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Start

Chassis

Services

Klanten

Service-tickets

LIR-prefixes

Orchestrator

Start / Nms / Services / 96d66325-081f-452a-9fc0-6c3748840626

AARNETNOC L2VPN ASD001B 100 Gbit/s ⚡

Acties ▾

NA

REAL TIME IN 252,42 Mock

REAL TIME OUT 252,42 Mock



Porten

Service configuratie



Algemeen



Workflows



Gerelateerde services



Geplande werkzaamheden

ESI asd001b-jnx-06 vlan 3921,3923



AGGSP 100G tagged (asd001b-jnx-06)

NA 6162e98f

Eigenaar	DANTE
Modus	tagged
Vlan Id	3921,3923

Port 1

Status	NA
Node	asd001b-jnx-06
Interface	-
Fysieke poort	-
Connector	-
Fiber type	-
Patch	-

ESI asd001b-jnx-06 vlan 3921,3923



SP 100G tagged (asd001b-jnx-06)

NA 3bc819c9

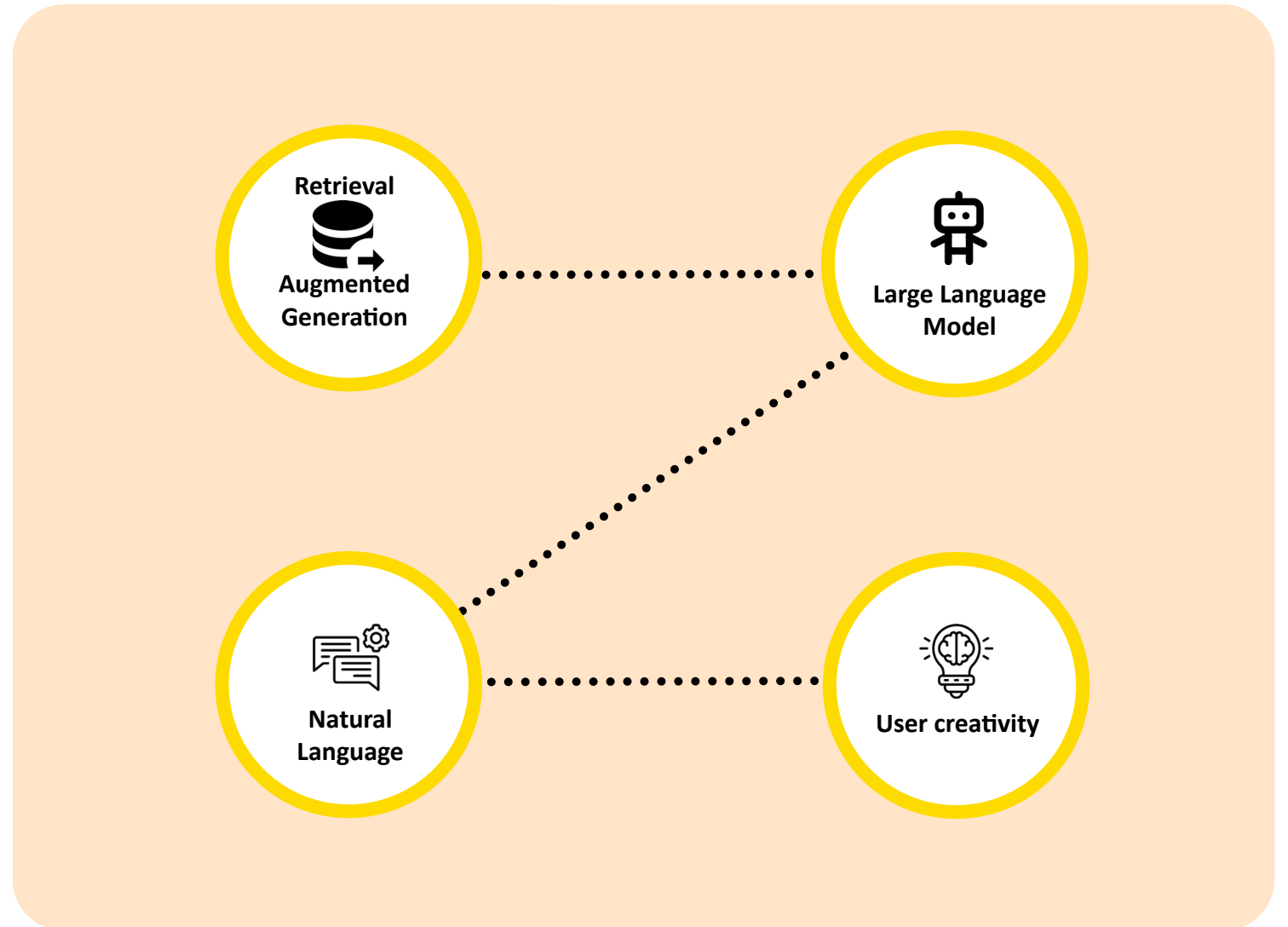
Eigenaar	KAUST
Modus	tagged
Vlan Id	3921,3923

Port 1

Status	NA
Node	asd001b-jnx-06
Interface	-
Fysieke poort	-
Connector	-
Fiber type	-
Patch	-

SURF

LLM Integration



PYDANTIC FORMS

Define JSON scheme with pydantic so a frontend can generate forms with pydantic validators

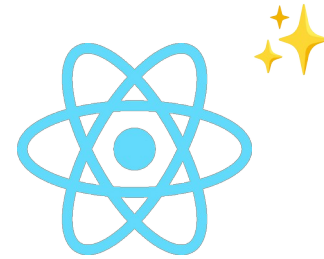


pydantic-forms

A Python package that lets you add smart forms to FastAPI and Flask

[PyPI](#)

[github](#)



pydantic-forms

New, now also for React!

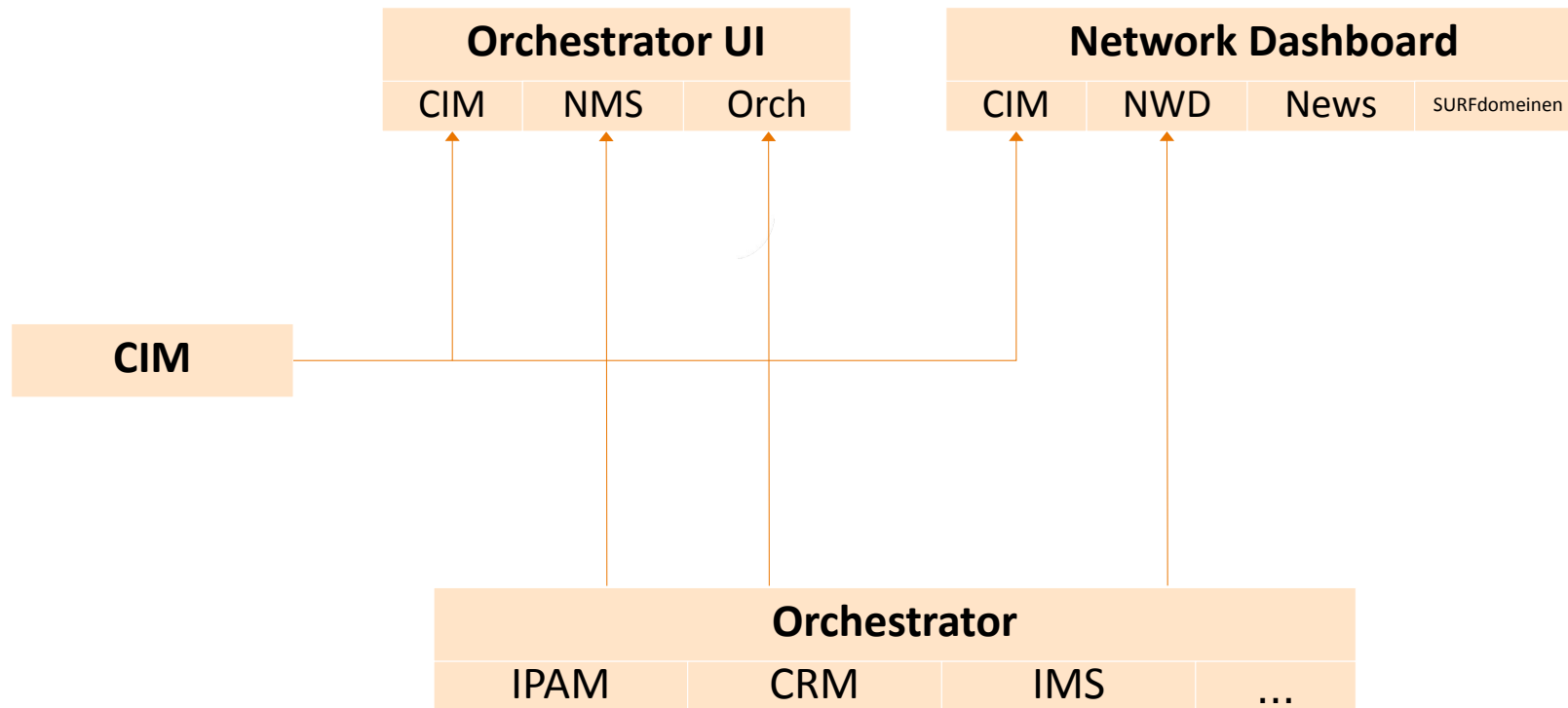


[npm](#)

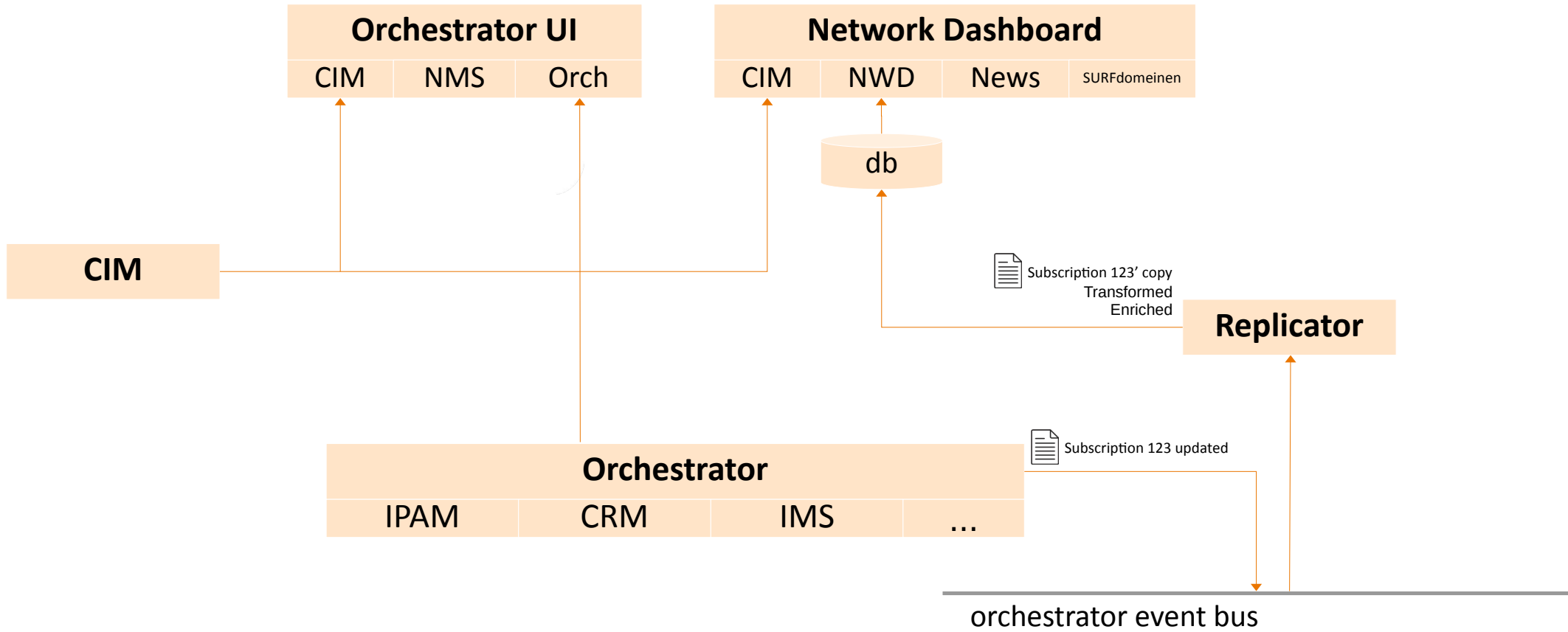
[github](#)

SURF

LANDSCAPE



LANDSCAPE





News

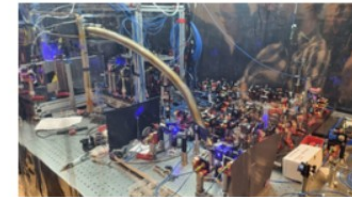
News about the SURF network

<https://network.surf.net>

Towards a European Time & Frequency Network

3 April 2025 — Sander Klemann

Introduction Last month, GÉANT organized a physical edition of the Special Interest Group Time & Frequency Network (SIG-TFN) at the Joint Science Centre (a research and advisory body of the European Commission). During this event in Italy, NRENs and NMIs came together to further develop the framework for a European Time & Frequency network. In [...]



GÉANT

International Connectivity

TFT

Celebrating 20 Years of LHCOPN & Looking Ahead to the Future of Scientific Data Infrastructure

24 March 2025 — Karin Wessel

This week in Manchester, SURF participated in the 54th LHCOPN-LHCONE meeting, where global experts gathered to discuss the evolution of research networking. It was a special occasion as we celebrated 20 years since the first LHCOPN meeting, reflecting on how far we've come in enabling high-speed data transfer from CERN's Large Hadron Collider (LHC) to [...]



Network news

CERN

International Collaboration

LHCOPN-LHCONE

NetherLight

SKA

Strengthening Global Research Ties at APAN59: A Dutch-Asian Collaboration Spotlight

17 March 2025 — Karin Wessel

Back from #APAN59, and what a fantastic experience! Honored to represent SURF and #NetherLight, highlighting their impact in international research collaborations—especially between scientists in Japan and in the Netherlands. A great example is the #TTADDA project, where Wageningen University & Research (WUR), together with Japan's Ministry of Agriculture, Forestry and Fisheries, Japan (MAFFIN), National Agriculture [...]



Network news

APAN

International Collaboration

International Connectivity

NetherLight

Wageningen

Inloggen met uw instellings- of eduID account

Om in te loggen met uw instellingsaccount via SURFconext of eduID, druk op "Inloggen".

Inloggen

Inloggen met uw SURFdomeinen account

Gebruikersnaam

Wachtwoord

Inloggen

Informatie over inloggen

Indien u namens uw instelling beschikt over de autorisaties "DNS-Beheerder" of "Domeinnamenverantwoordelijke" dan kunt u met uw instellingsaccount of uw SURFguestaccount via het bovenste blok inloggen.

a.nieuwland@sobolt.c... chikt over een
anieuwland@nimmer... en gebruikersnaam en
wachtwoord dan kunt u deze
gebruiken om in te loggen in het
onderste blok.

Aankondigingen

DNSSEC voor .com, .net en .org

SURFdomeinen ondersteunt nu ook DNSSEC ondertekening voor managed zones onder .com, .net en .org. Hebt u een .com, .net of .org domein waarvoor u DNS beheert via SURFdomeinen? Dan kunt u nu eenvoudig DNSSEC inschakelen via de daarvoor bestemde knop in het overzicht van de DNS zone voor het domein.

Algemene informatie over SURFdomeinen is te vinden op de [SURF website](#).

Handleiding

[Handleiding SURFdomeinen](#)

[Veelgestelde vragen over SURFdomeinen \(FAQ\)](#)



← Go back

SURFdomeinen

[Domains & zones](#)

[Reverse zones](#)

[Contacts](#)

[Nameservers](#)

[Zone templates](#)

[Logs](#)

All administered domains and zones

+ ADD DOMAIN/ZONE

Name ▾	Domain registered with SURF	Zone type ▾	DNSSEC
netherlight.net	✖	Primary	✖
orchestrator.surf	✖	Primary	✖
surf.net	✖	Primary	✖

Shown 1-3 of 3 total results

Results per page

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SURF

Questions?