

# Automation Developer Days 2024 の参加報告

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# Automation Developer Days とは

- ネットワーク自動化及び関連製品の最新情報を学び、経験を共有し合うことを目的とするイベント
- シスコが買収した会社 tail-f（現 NSO BU）の本拠地であるスウェーデン、ストックホルムで発足
- Stockholm, Melbourne, New York などで開催
- 近年は NSO に限らず、自動化全般を対象とした Automation Developer Days に
- コロナ前は日本からも多くのお客様がプレゼンターとして参加



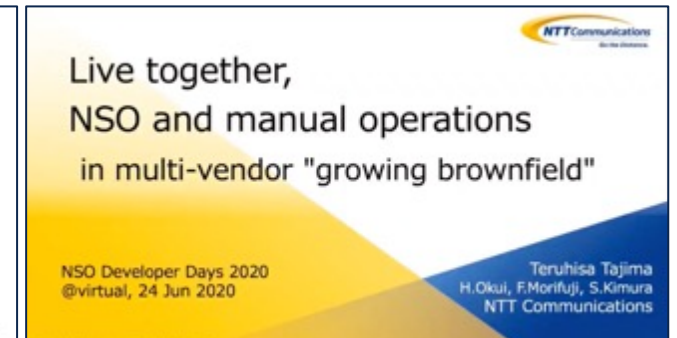
2017 年  
KDDI 様



2018 年  
NTT docomo 様



2019 年  
SoftBank 様

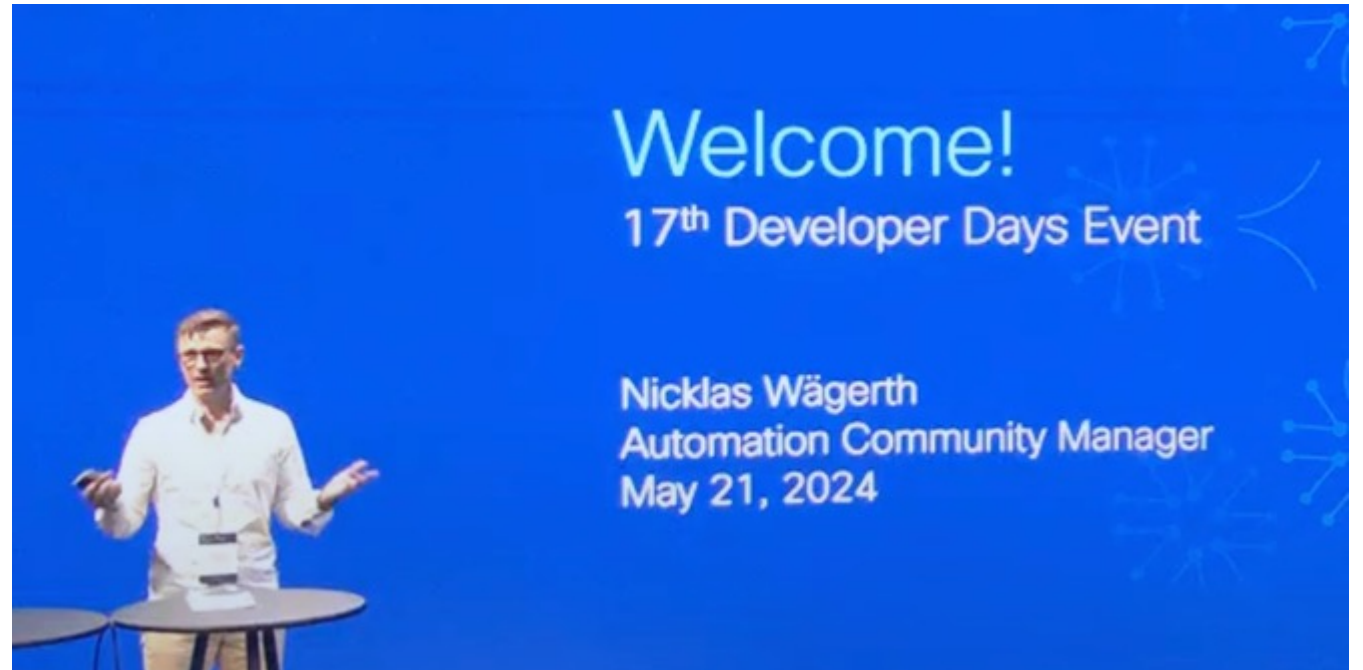


2020 年  
NTT com 様

# Automation Developer Days 2024

- 2024 年 5 月 21-23 日に開催
- 今年で 17 回目、約 200 名が現地参加
- セッションは一部を除いて YouTube で公開されています

<https://youtube.com/playlist?list=PLhTPrPcGzO7HNhj9TocXk1PVb0W0mYRrq&si=INdQmLcw4tcF4dxU>



# どんなジャンルのセッションにご興味ありますか？

どれか選んで手を挙げてください！複数回答 OK です！

- 1 NSO のベストプラクティスや便利ツール
- 2 NSO のパフォーマンス改善
- 3 AI
- 4 サステナビリティ
- 5 Cisco の自動化戦略や関連製品
- 6 他社事例
- 7 その他

# Automation Developer Days – Day 1

Time	Session Titles
8:30	Welcome to Automation Developer Days!
8:50	Networking Reimagined: Cisco's Vision for the Future of Automation
9:20	MasOrange's Path to Autonomous Networks: A Strategic Evolution
10:30	Automating the Full Lifecycle of Network Operations in Multi-vendor, Multi-domain Networks
11:10	Integrated Performance Measurement
11:30	Connecting the dots between automated service fulfillment and service assurance
14:10	CLI Developer Tools
14:20	Managing the Managers: Optimizing Network Performance with Cisco NSO and OpenTelemetry
14:40	Introduction to Xpath
16:30	Strategic Insights and Vision: An Executive Panel on Cisco's Network Automation Journey

13:00	Breakout Sessions 1
	Crosswork Workflow Manager (CWM) - the Power of CWM 1.1 with NSO
	Latest and Greatest CDB Upgrade Improvements
	Mastering the Art of YANG - Advanced NSO Service Modeling
	Reaching Network Automation Level 5: Principles and Practice
	SRv6 uSID Hands-On: Building Your First SRv6 uSID Enabled Network

13:40	Breakout Sessions 2
	Manage the NSO Resource Manager
	Say Hello to the Router Automation Kit

15:50	Breakout Sessions 3
	How to Develop a Utility Function Adapter for Performing Data Processing Functions
	Synergising Legacy and Innovation: The Evolution of Network Automation at Liberty Global

16:00	Breakout Sessions 4
	Cisco Network Automation Delivery Model (NADM): A Strategic Blueprint for Network Automation Success
	How to customize Crosswork Router Automation Kit

# Automation Developer Days – Day2

Time	Session Titles
8:20	Welcome to Day Two and the Sustainability focus
8:40	Keynote: T.Loop
9:00	Sustainability with Crosswork
9:20	Visibility, Insights, and Action: Harnessing the power of Automation
9:40	Carbon-as-a-KPI: Pioneering the 'greener' Path
11:00	NSO in the future
11:20	Cisco AI Automation Strategy
13:40	Walk Through of Data-Driven, Portable Test Automation for Network Infrastructure
14:00	Enhance sustainability on Cisco NSO using python: lessons learnt from real experience
14:20	Designing AI for Network Troubleshooting: A Proof of Concept with OpenAI and Langchain
14:30	How to Limit the Concurrency of NSO
16:00	Cisco AI Automation Expert Panel
16:30	Halving the NSO Memory Footprint: Transitioning to an On-Demand In-Memory Database

10:30	Breakout Sessions 1
	Managerial Workshop: Establishing and Sustaining a Network Automation Practice
	Network Automation and Assurance

13:00	Breakout Sessions 2
	Beyond IP: Unveiling the Optical Secrets for resilient VPN
	CWM Use Case Demo / Discussion
	Language Driven Orchestration Interface
	No Code, No Problem: Ingestion of IOS Device Telemetry into Skylight Analytics Just Got Easier

13:30	Breakout Sessions 3
	Ready to unlock the power of the Crosswork Hierarchical Controller?
	Skylight demo and use case discussion
	Troubleshooting NACM

15:30	Breakout Sessions 4
	Designing for Maximal Transaction Throughput - LAB
	LLM-Query and AutoReConciler - LLM assisted NSO automation
	Transport Slicing made easy with Crosswork Network Controller

# Automation Developer Days – Day3

Time	Session Titles
8:20	Autonomous Networks from Going Vision to Journey
8:50	Crosswork Network Controller Update and Roadmap
9:30	Crosswork Network Services Orchestrator (NSO) Roadmap and Feature Prioritization
11:10	NETCONF Vs CLI: Performance and feedback
13:30	What is Ductus Developer Portal and how can it make your day-to-day development easier?
14:30	NSO Service as a Code in Help of Addressing Operations Intention
16:00	Revved Up: Generating New Revenue Opportunities with Proactive Assurance

10:30	Breakout Sessions 1
	Bringing a Hyperscaler Mindset to Service Provider Networks
	CWM Getting Started Lab
	Effective Use of Crosswork Network Controller APIs for Custom Extensions and Northbound Application Integration
	Nuuday's Network Evolution

11:00	Breakout Sessions 2
	Get Started with Continuous Integration for your Network Services Orchestrator Development
	Maximizing Value: Automation Fuels du-Telecom's Digital Transformation

11:30	Breakout Sessions 3
	du Automation Observability Stack + Gen-AI Insights
	Through the Magnifying Glass – How to Review Your QA and Create a QA Strategy

13:00	Breakout Sessions 4
	Automation: Key to Modernized Operations by Crosswork Network Controller
	Migrating from CLI to NETCONF
	What is Crosswork Cloud? How Do I Use It in My Crosswork Deployments?

13:40	Breakout Sessions 5
	Granular Role-based Access Control Implementation
	Turbocharging NSO-ARC: Accelerating Unit Testing for Next-Gen Networks, a Swisscom story

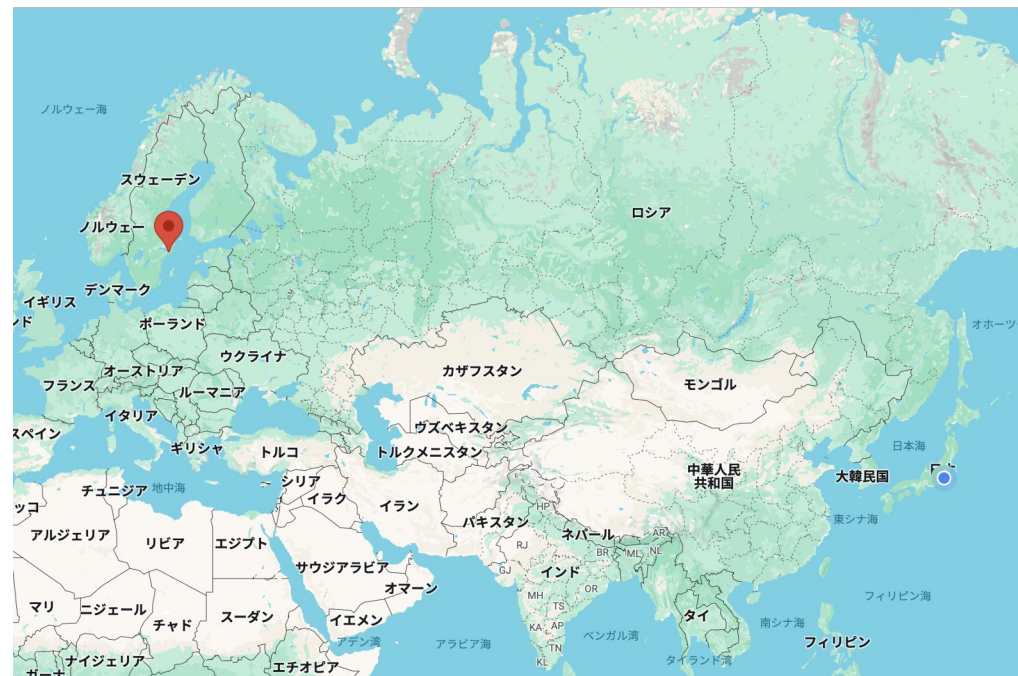
14:00	Breakout Sessions 6
	CNC in Multi-VPC environment on AWS with XRD Devices
	Implementing Cisco NSO in the Brownfield: Handling the Out of Sync Challenge
	Raft vs Rule-based HA - Recommendations of usage

15:30	Breakout Sessions 7
	Automating On-demand Multi-vendor Cloud Topologies
	NETCONF, RESTCONF, gNMI, OpenConfig -- What to Chose?



# Sweden/Stockholm

- いわゆる北欧地域で、夏は夜がすごく短いです。5月だとちょっと肌寒い
- 日本からはヘルシンキ経由のアーランダ空港が最短？です。





# 食事

- IKEAに行かれたことはわかると思いますが、ミートボールが有名です
- でも、実はあまりミートボールを提供している店は少ないです



# 観光

- 建物は北欧っぽい感じです
- 海が近い町です
- ノーベル博物館もあります





# Japan NSO User Community

- Ciscoさん主催のこのコミュニティは、定期開催イベントとして継続ですが日々の情報交換をもっと活発にしたい
- Slackを作りました
  - Free Planだと3ヶ月で消えてしまうので、CTC管理の組織内にまずは作りました
  - 招待制になるので、渡部・川端に声をかけてください。Inviteさせていただきます
- Main Topic
  - これ、どうやってやるの？などの気軽な質問の場にしたいです
  - KnowledgeはCisco Japan Communityに我々の方で代理投稿しようと思います

