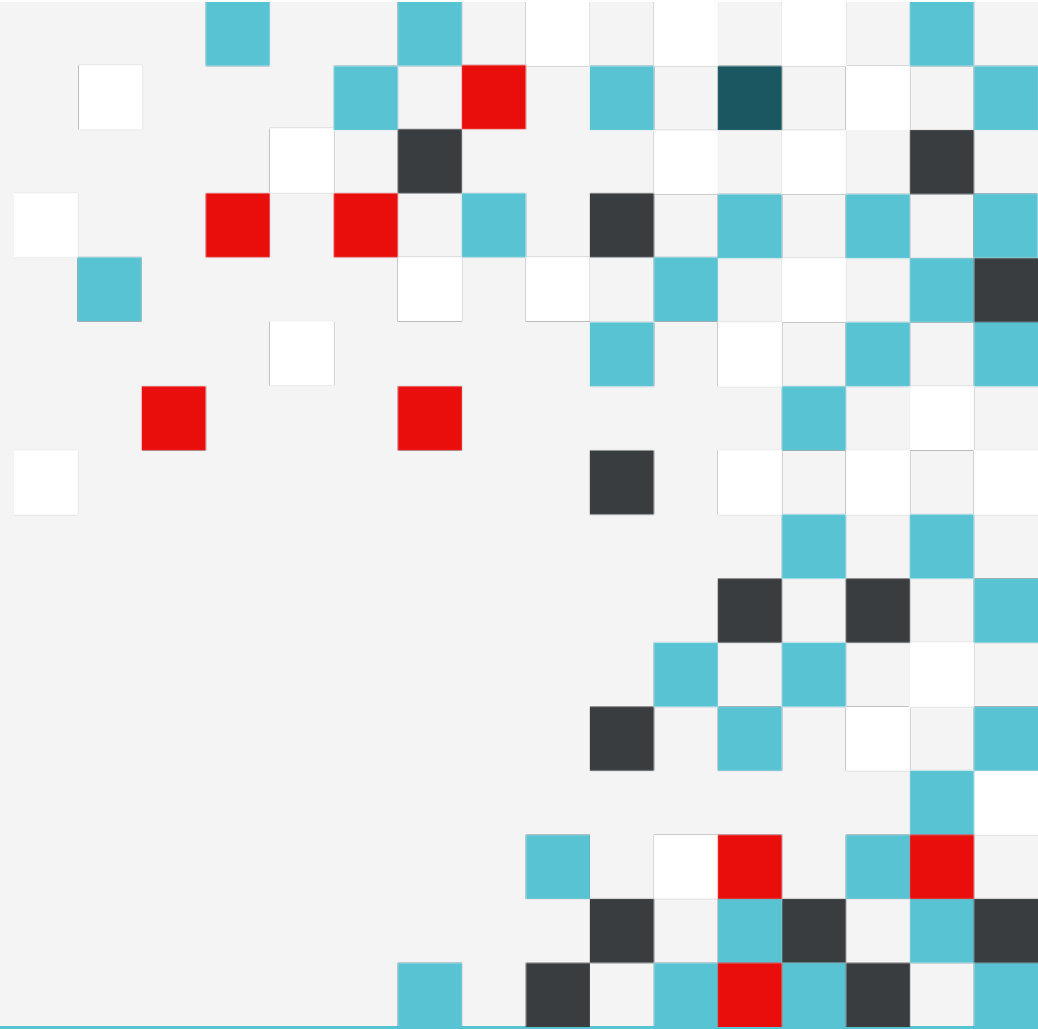


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CANARIE Orchestration Update: TNC 2025



2024-2025 Proof of concept

- Environment

- Helm Kubernetes deployment for Orchestrator, NSO and Netbox
- Build, test and auto deployment pipeline for demonstration and acceptance testing

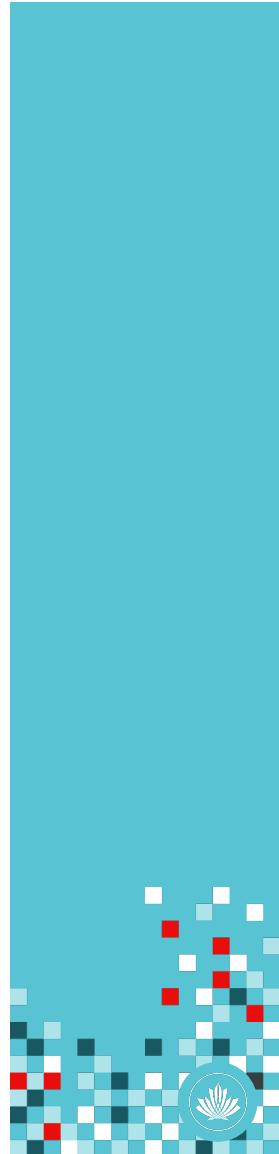
- Demonstration

- Control of Nokia SR1 in lab environment
- Implementation of workflows
- Configuration of a BGP session with the production network and exchange of traffic

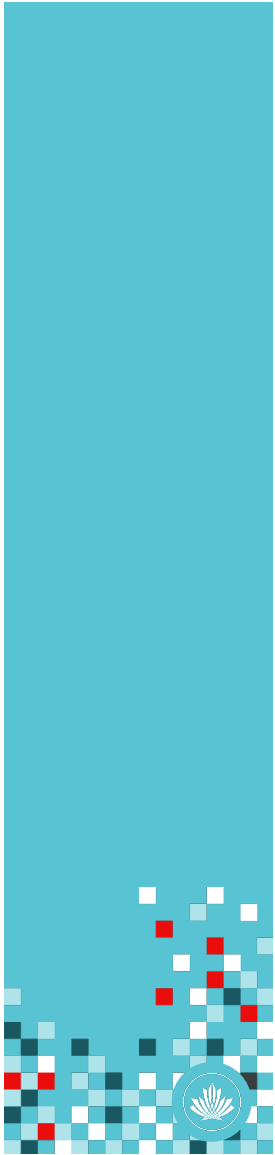
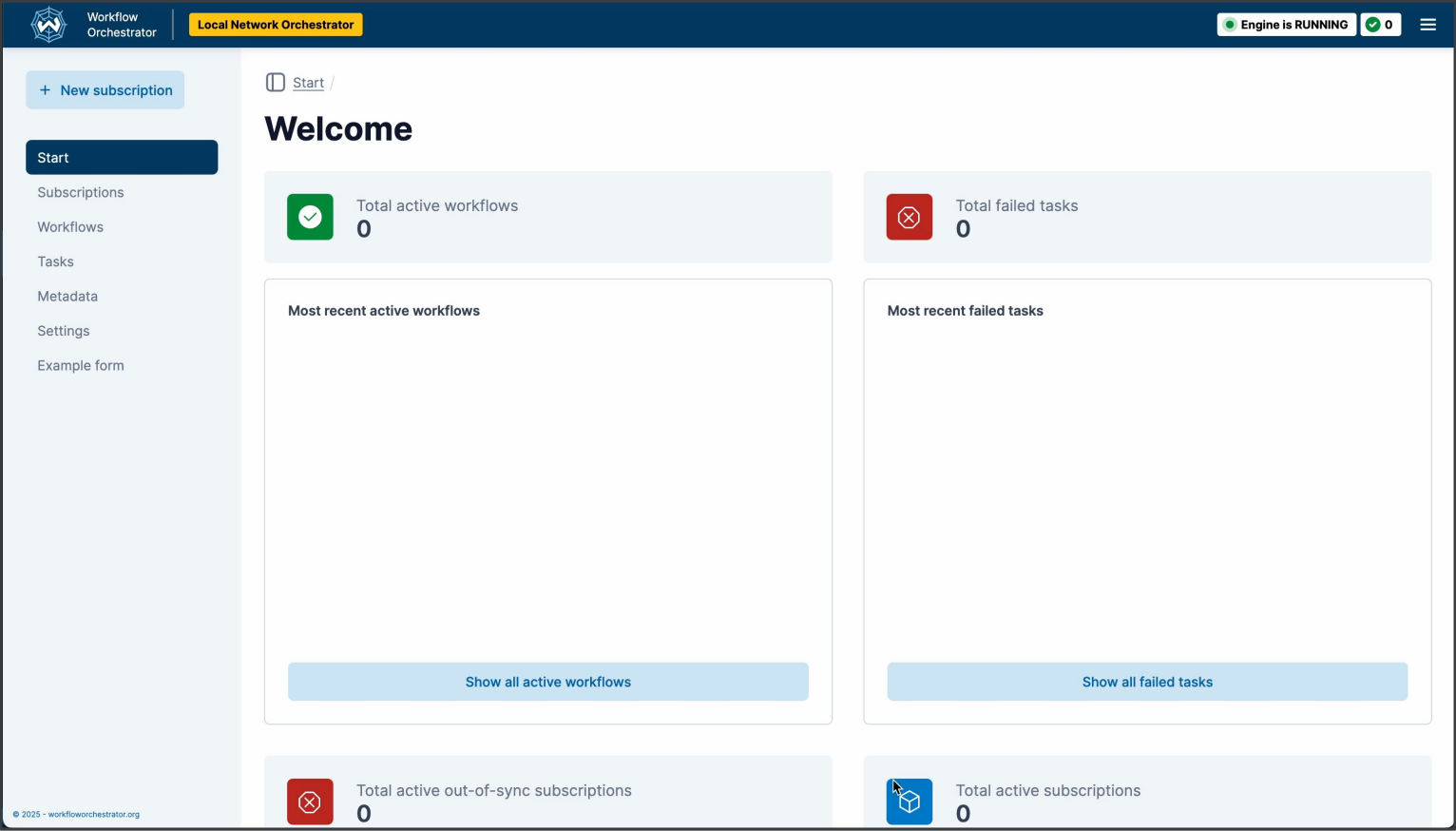


Current Workflows

- Node
 - Initial configuration read from Netbox
 - Update NSO
 - Write back to Netbox
- Port
 - Initial configuration read from Netbox
 - Update NSO
 - Write back to Netbox
- Service Edge
 - Combine existing subscriptions, IPAM in Netbox and user input to create a Service Edge
 - Configure an Interface in NSO
 - Configure an Interface in Netbox
- IP Service
 - Combine existing subscriptions, IPAM in Netbox and user input to create a BGP Session
 - Create BGP Session in NSO
 - Record BGP session in Netbox and link it interface and IPAM

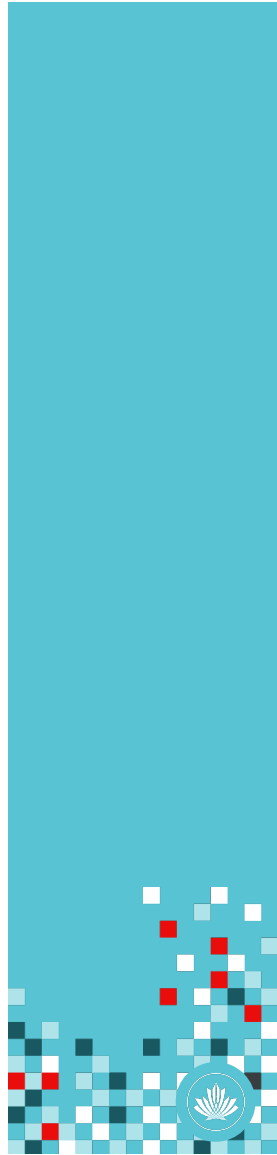


Demonstration



Next steps 2025-2030

- Production deployment planning
- Planning a roadmap for our current mandate including:
 - Consistent automatic naming
 - SAP, Service Names and Descriptions
 - L2VPN
 - Client services
 - Common Config







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