

BRKNWT-2502 Agentic AI and NetDevOps: Enabling a New Era of Network Change Validation

CISCO Live !

GenAI agents, Network Digital Twin and NetDevOps practices for improved network operations

Giovanna Carofiglio
Distinguished Engineer
Cisco Outshift

Cisco Webex App

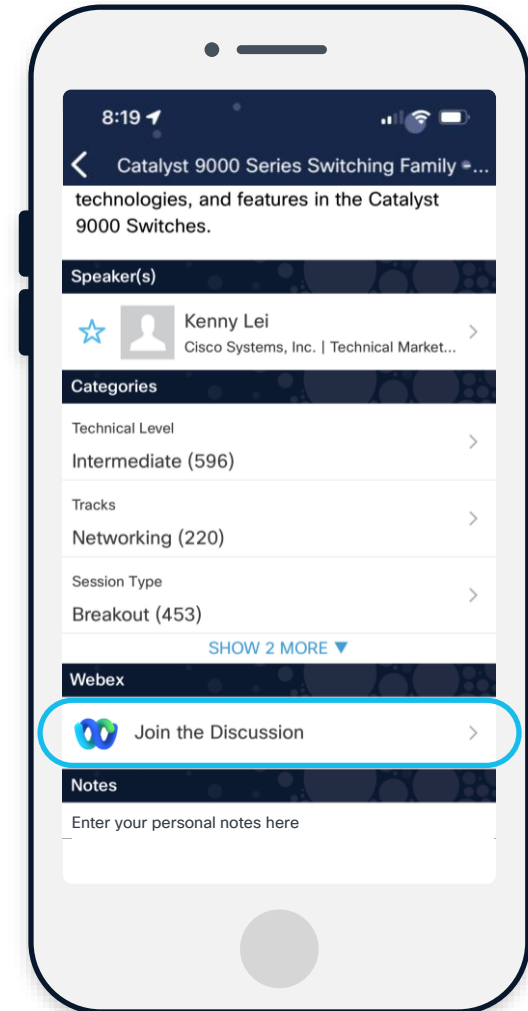
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 13, 2025.



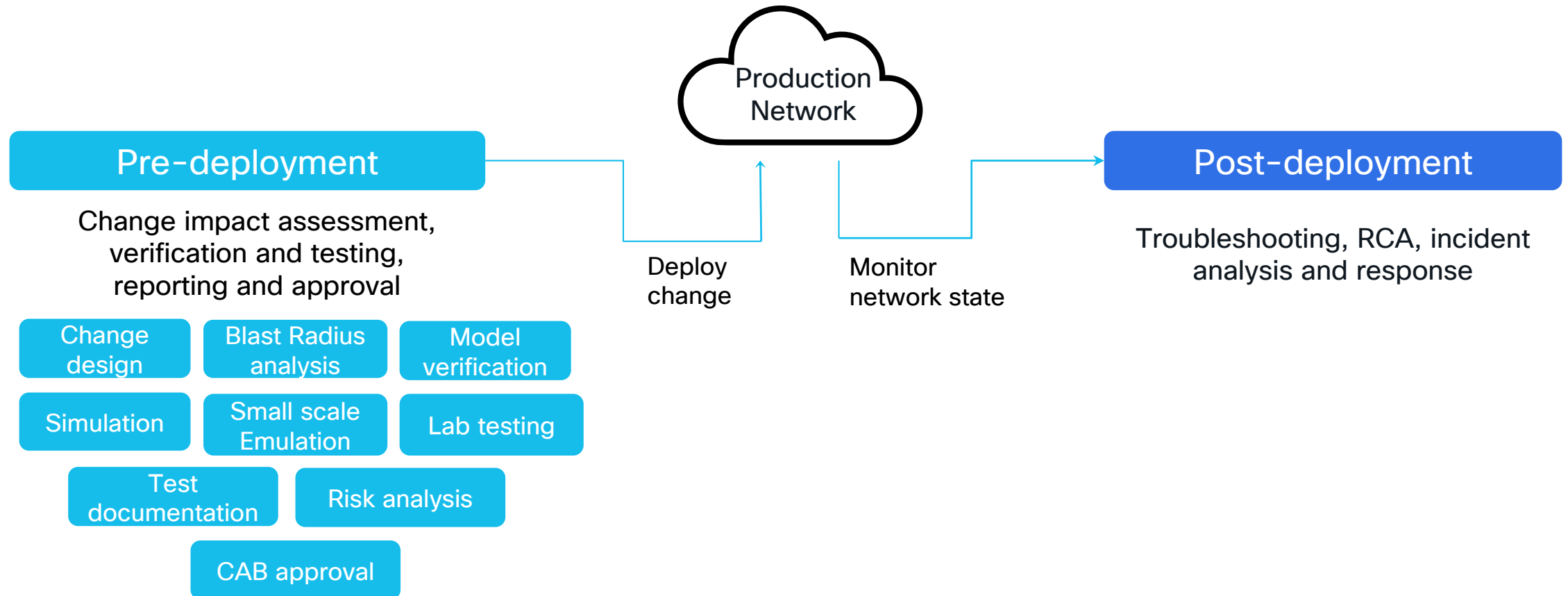
Agenda

- 1 **Network Change Validation Problem**
- 2 **Proposed solution**
- 3 **Network Digital Twins**
- 4 **Agentic AI role**
- 5 **NetDevOps workflow integration**
- 6 **Use case demo**
- 7 **Internet of Agents**
- 8 **Conclusions**

Network Change Validation

Focus on Pre-deployment phase

Pre-deployment change validation still rely mostly on manual error-prone processes



Problem

Frequency and Implications

Manual, non-representative, lengthy and error-prone testing results in significant business impact

Network changes

#1

cause of major network-related outages

- Annual outage analysis 2023, Uptime Institute

Misconfigurations

>80%

of network problems are due to improper configuration & change management issues

- Gartner

Business impact

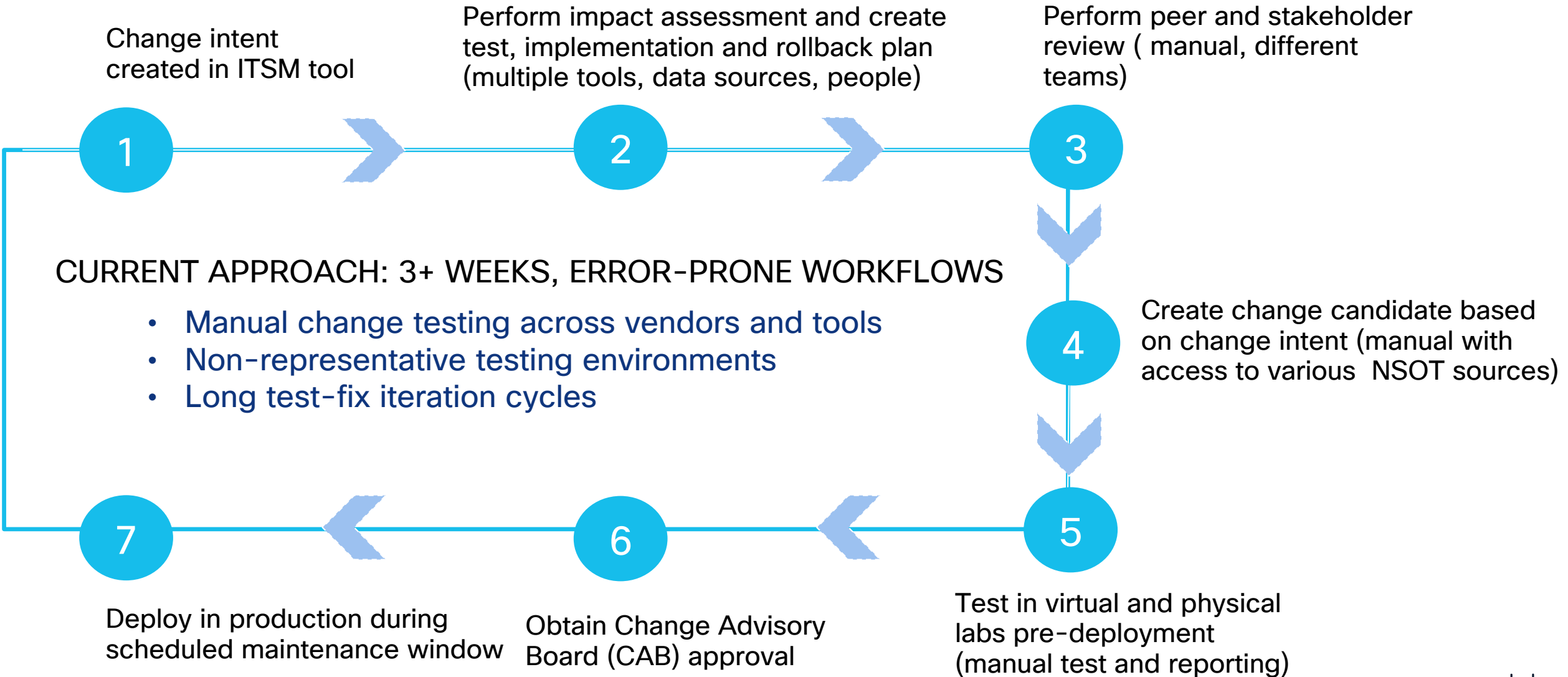
\$400B

Annual cost of unplanned downtime: \$400B problem facing the Global 2000

- Oxford Economics

How is it addressed today?

A typical pre-deployment change validation process



Organizations expect AI to help today



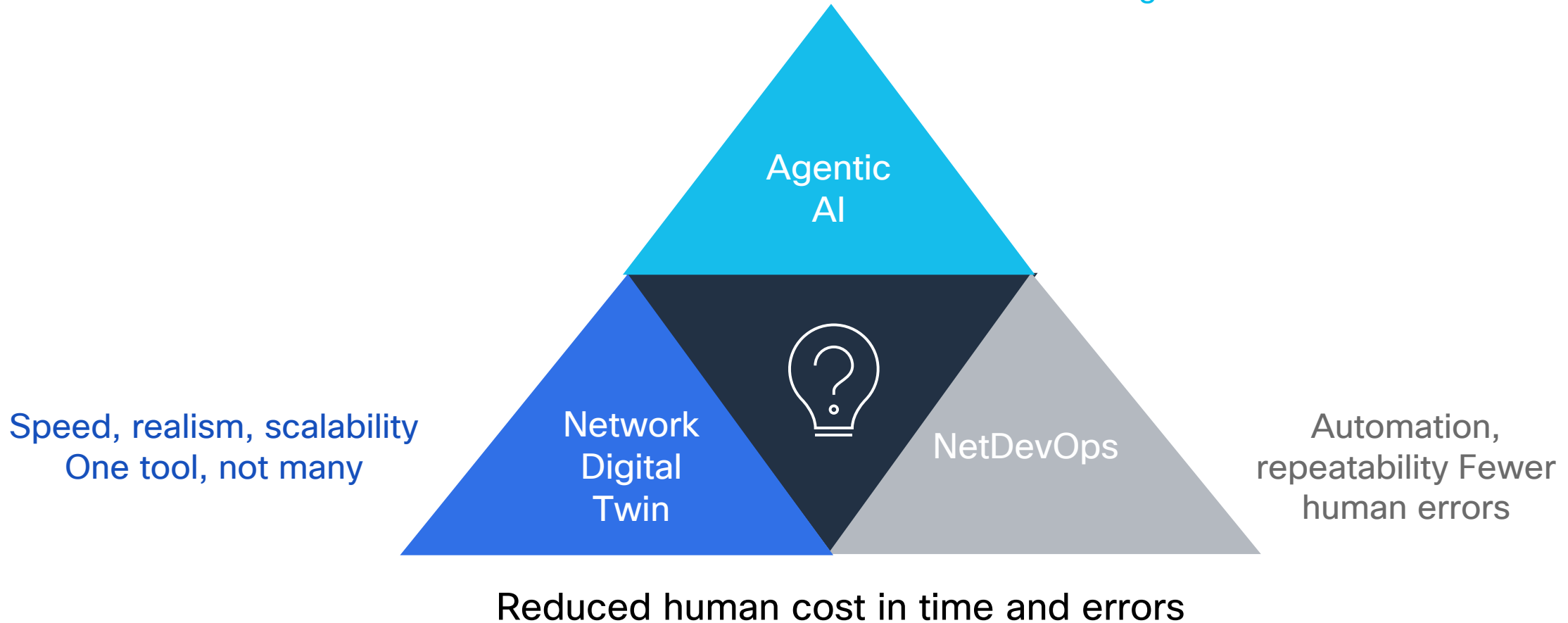
What I need is a comprehensive tool that I can pull out, build a model of my network, and model the changes and get some expectations of what's going to happen. Having some sort of AI tool to model that or to flag something that's important would be really useful

Senior Manager of Network at
International Bank

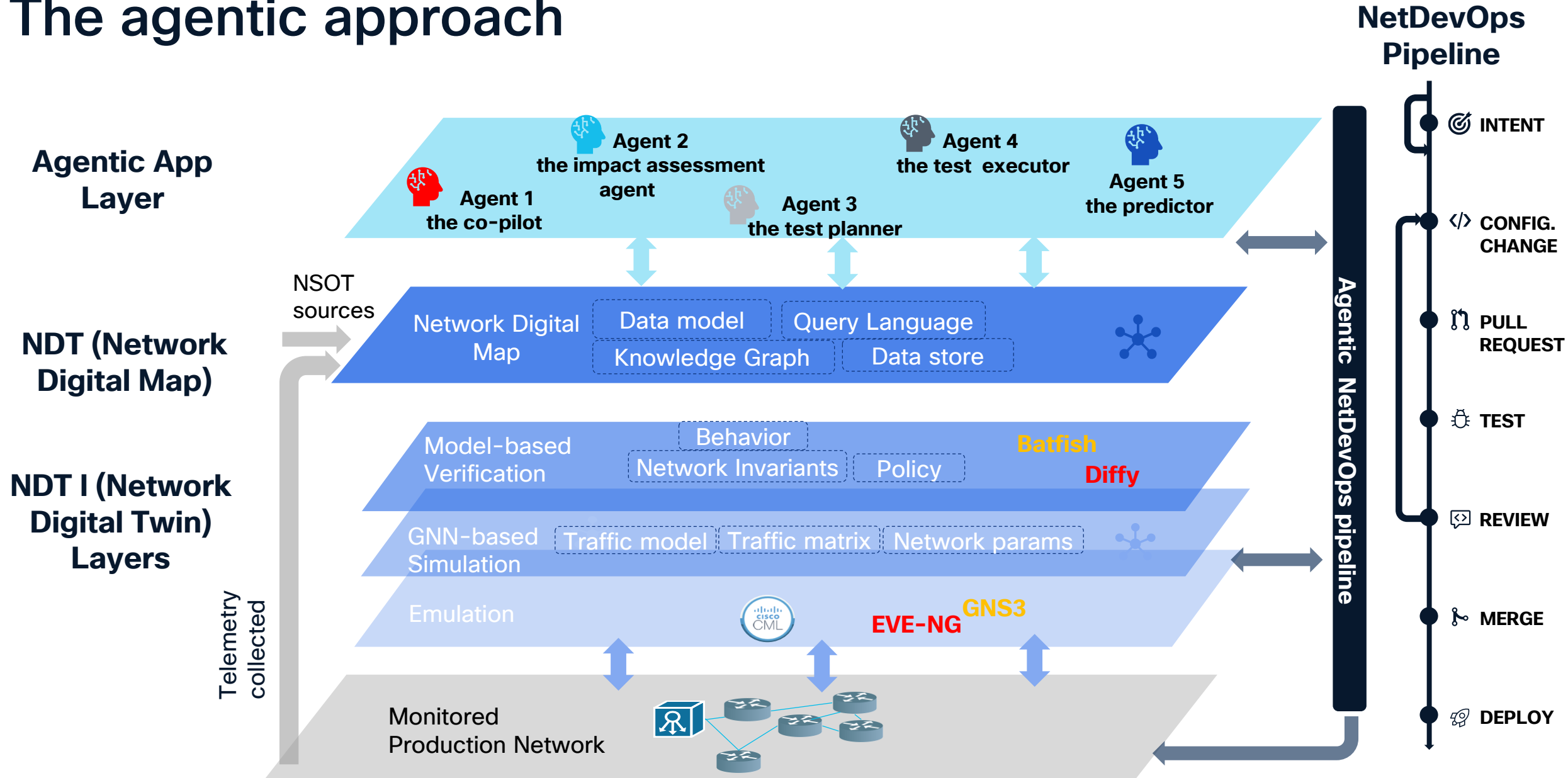
Agentic AI transforms traditional approaches

Streamline network change validation by employing GenAI NetOps agents with domain expertise and access to a live digital twin representation of the network

Autonomous data-driven in-context reasoning



The agentic approach



Network Digital Twins

Model-based

Batfish
Forward
Networks

- **Abstract Representation**
- **Static Analysis**
- **Scalability**
- **Use Cases:** network design, capacity planning, and configuration management

Simulation-based

NS3
OPNET

- **Dynamic Behavior**
- **Scenario Testing**
- **Predictive Analysis**
- **Use Cases:** performance analysis, stress testing, impact evaluation/risk assessment

Emulation-based

EVE-NG
GNS3

- **Real-time Interaction**
- **Realism**
- **Integration with Live Data**
- **Use Cases:** testing network changes, troubleshooting, and validating network behavior under realistic conditions

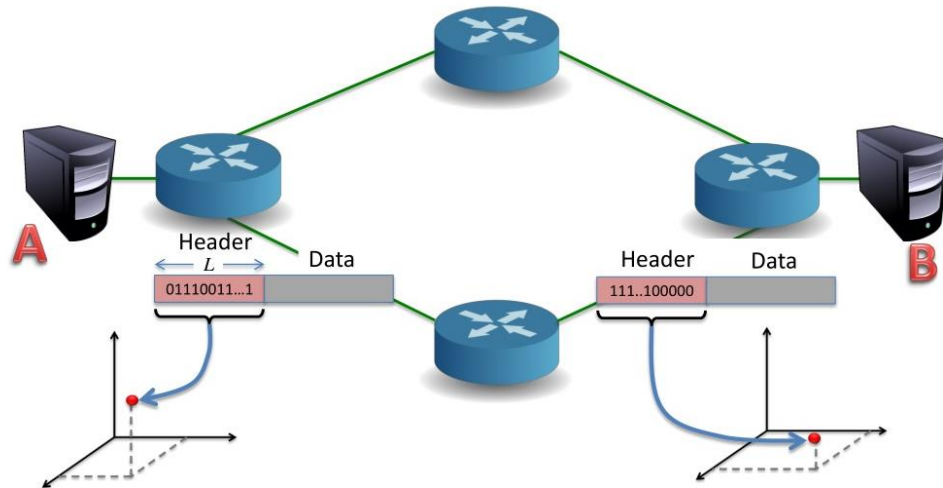
Realism

Scalability

Model-based verification

Header-Space Analysis

- Modelling Forwarding / ACL state using “transfer functions”
- Ability to run “parallel” verifications using all packet headers



Capabilities/Limitations:

- Limited to data plane/control plane (routing protocol support)
- E.g. SRv6 is not supported
- No traffic

Batfish

INGESTION

Support for multivendor configs

« SIMULATION »

Routing protocols, ACL

VERIFICATION

Model-based verification using HSA

Opensource

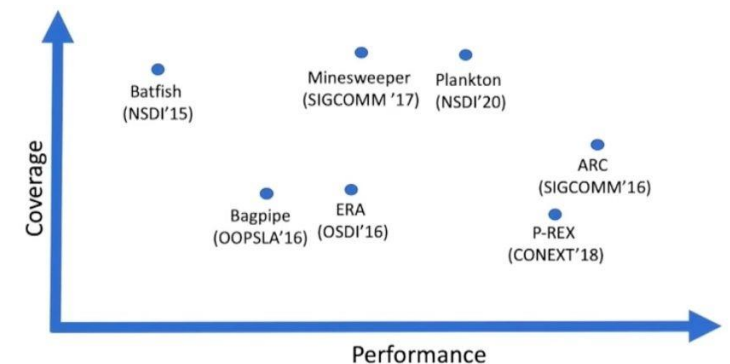
Microsoft Research → Intentionet → AWS

Commercial offerings: Batfish Enterprise

Notable commercial products using HSA

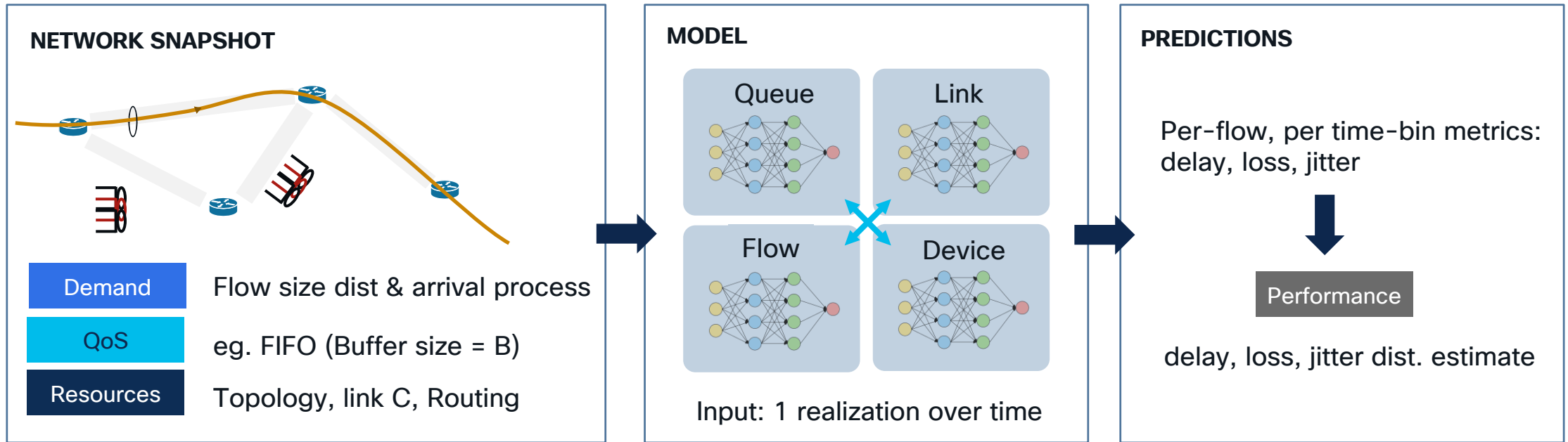
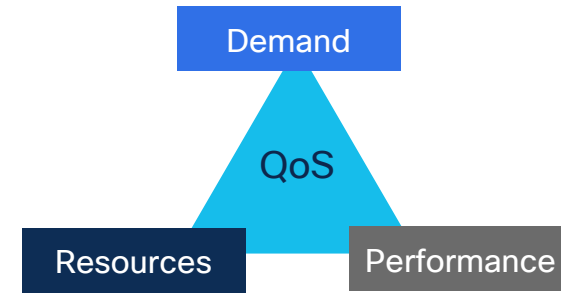
Forward Networks

Multiple Network Verification tools



GNN-based traffic simulation

- Embeddings for major network entities: Queue, Link, Flow, Device
- Message Passing Neural Network (GNN) to represent interactions
- Ongoing integration in Aether NDT



Universitat Politècnica de Catalunya

RouteNet
(2020)

RouteNet-Erlang
(2021)

RouteNet-Fermi
(2022)
Flow-level, QS assumption

RouteNet-Challenge
(2023)
Real packet traces

RouteNet-Gauss
(2025)
Temporal aspect

Emulation

Various emulation tools exist both proprietary and in open source. They can allow realistic testing but it comes at the cost of complex / lengthy setup and testing and with severe scalability limitations (CML doc mentions throughput cap at 1.6Mbps, but limitations comes from VM/VNF of vendor devices more than the emulation tool)

GNS3 virtual and real devices for network emulation, widely used for network design and testing.

EVE-NG (Emulated Virtual Environment Next Generation): multi-vendor network emulation platform supporting a wide range of virtual network appliances.

Cisco CML: network emulation environment to test and validate configurations.

Mininet: OSS network emulator that enables testing of software-defined networks (SDNs) and network functions virtualization (NFV).

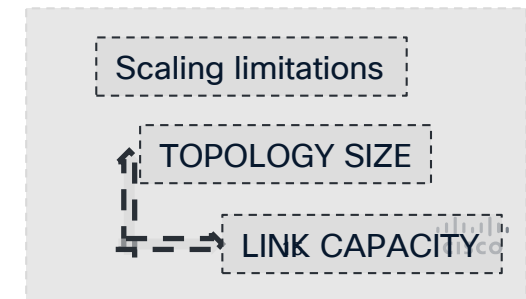
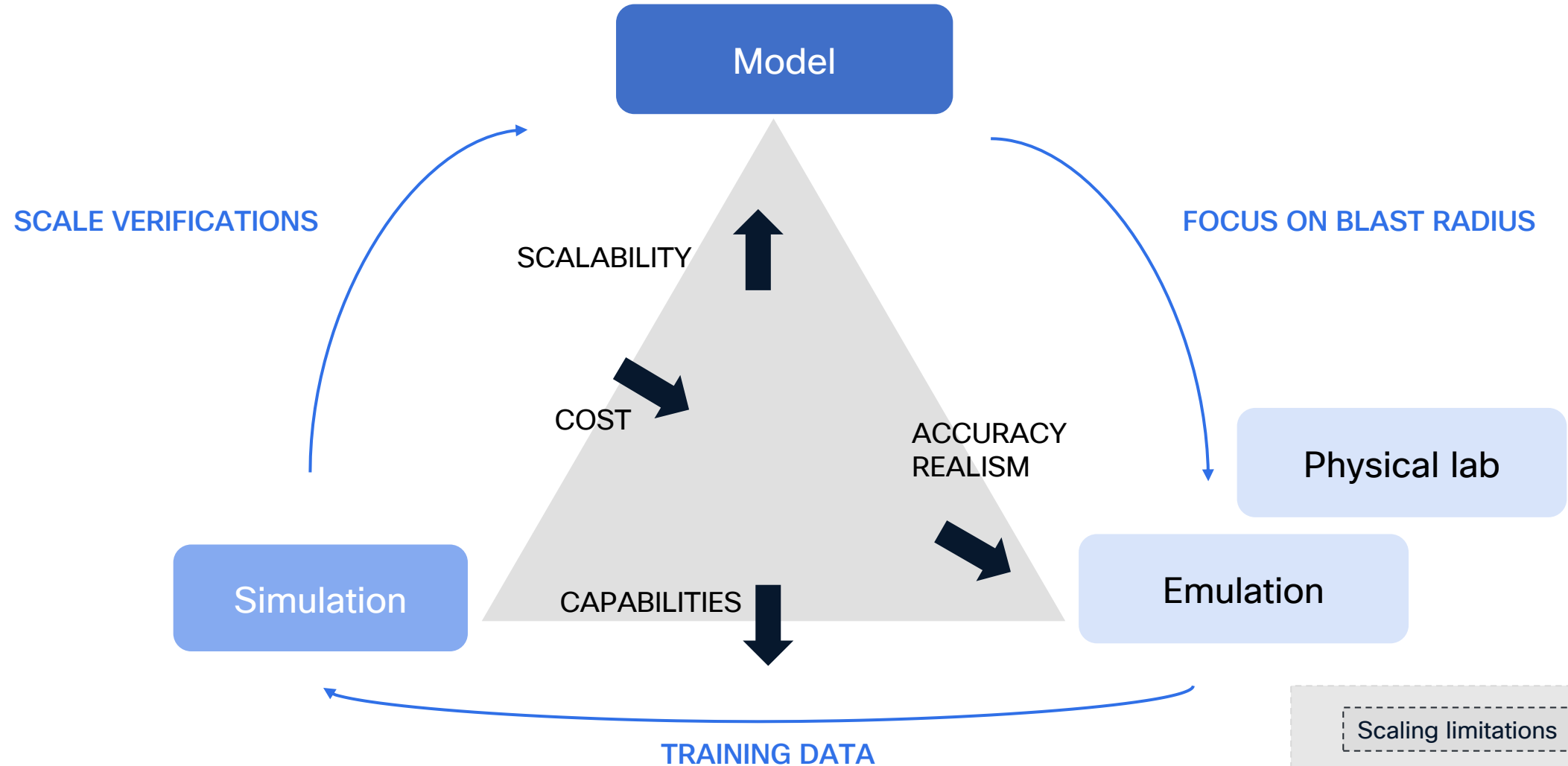
Pros

- Realism
- Real-Time Interaction
- Integration with Real Devices
- Versatility.

Cons

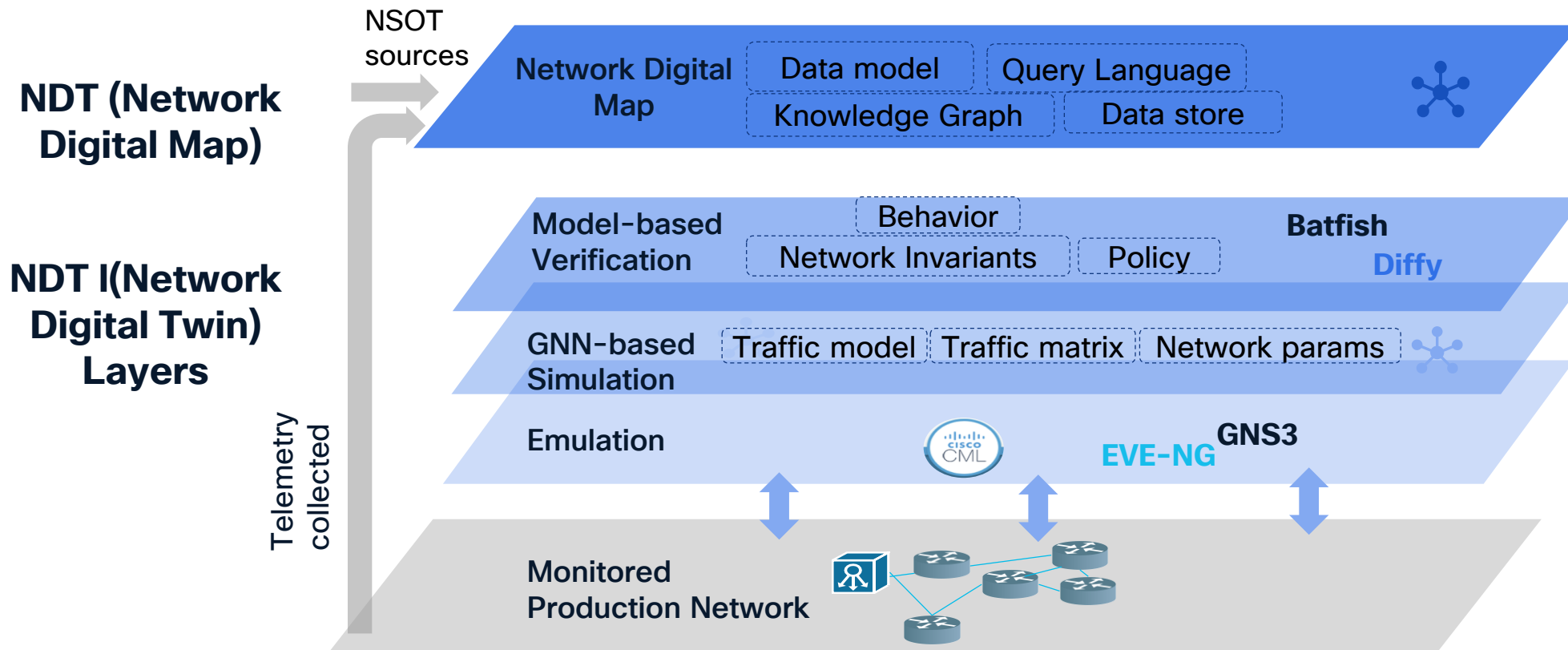
- Resource Intensive
- Scalability
- Complex Setup
- Hardware Dependence

Can the approaches co-exist?



How we can combine the three for a multi-layer NDT

- We don't need to choose one
- Also, we don't need to replicate cost for setup/parallel use of tools if we start from a common NDM



Network Change Use cases

Device Topology

- Add new device
- Device upgrade or replacement
- Topology changes
- New topology migration
- EVPN/VXLAN/SDA changes
- Network optimization (AP placement, topology, etc)
- Interfaces change

Path

- Routing update (BGP, OSPF, static routes)
- Forwarding update (next hop change, connectivity change along a path)
- Capacity planning change

Flow

- ACL/policy update (site isolation, new allowed host)
- Firewall policy change
- Change driven by QoS/QoE KPI (traffic engineering)

Agentic role in Network Change Validation



Natural Language interface with user



Automation based on reasoning throughout the process



Interpretation of NDT context given capability to traverse a large knowledge graph dynamically



Dynamic test selection, execution, analysis, test again loop

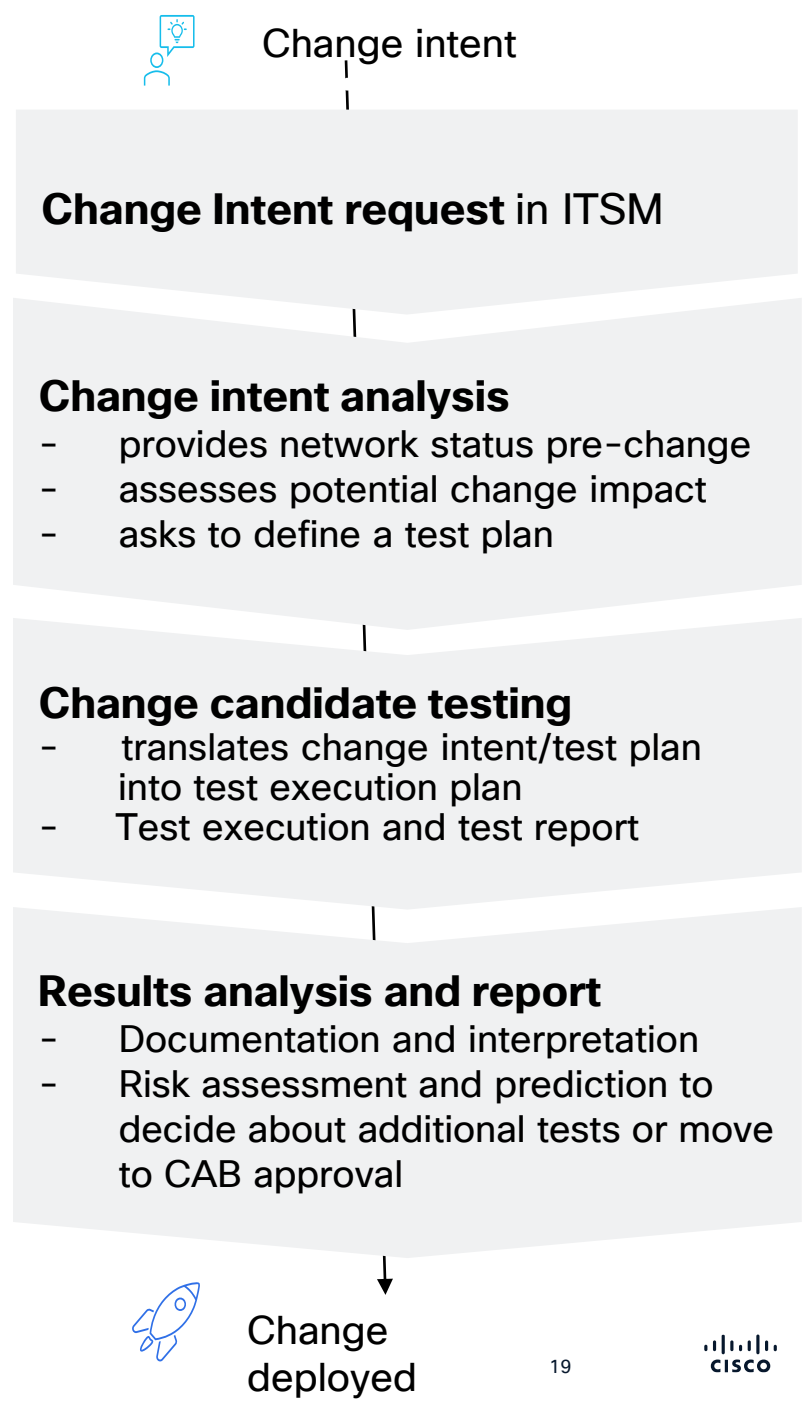
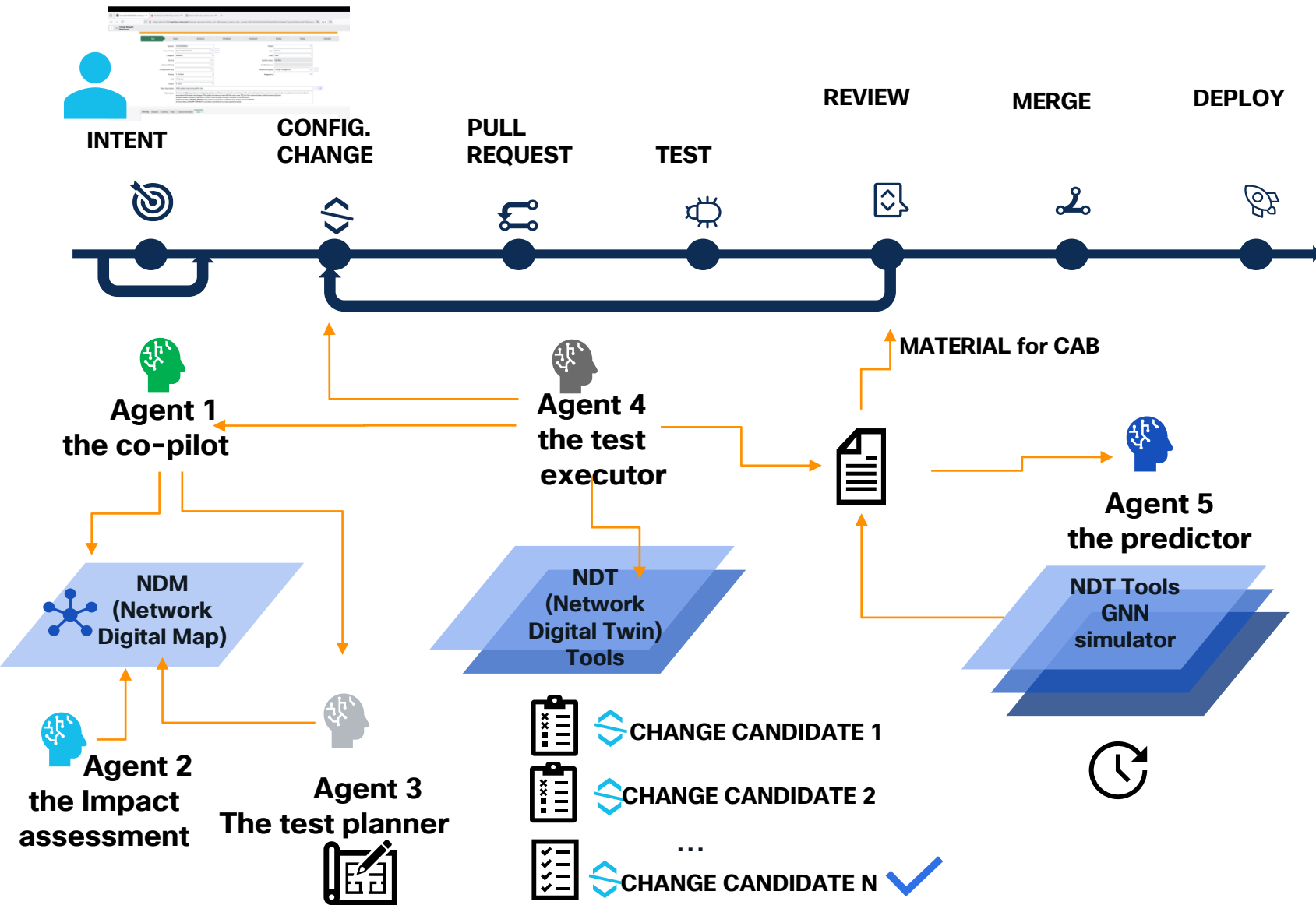


Error/feedback/retrial mechanism throughout the overall process









Memory and learning based on experience (without relying on human in the loop)

Change Validation Agentic workflow



NetOps Agents

Agent	Purpose	Design Pattern	LLM	Tools
 Assistant / Co-pilot	<ul style="list-style-type: none"> • Conversational chat interface for the user to explore NDT network via NL • Co-pilot for tasks like creating a test plan or impact assessment upon an ITSM change request. 	ReAct reasoning loop	Llama3.3	<ul style="list-style-type: none"> • ServiceNow / ITSM • Other agents
 Impact Assessment	<ul style="list-style-type: none"> • Perform impact assessment of the change request based on change intent (affected devices, potential downtime, network performance changes) 	ReAct reasoning loop	Llama3.3	<ul style="list-style-type: none"> • NDT
 Test Planner	<ul style="list-style-type: none"> • Generate a high-level test plan based on the desired outcome of the change request. 	ReAct reasoning loop	Llama3.3	<ul style="list-style-type: none"> • Other agents
 NDM Query Agent	<ul style="list-style-type: none"> • Natural language interface with NDM/NDT 	ReAct reasoning loop	Fine-tuned model	<ul style="list-style-type: none"> • NDM
 Test Executor	<ul style="list-style-type: none"> • Take the test plan associated with the ITSM ticket, and a change candidate proposed by a network engineer and execute the tests using NDT 	Agentic workflow	Llama3.3	<ul style="list-style-type: none"> • NDT • Other agents
 Predictor	<ul style="list-style-type: none"> • Predict impact on traffic performance (loss/delay/load) based on NDT GNN 	Agentic workflow	No LLM (GNN)	<ul style="list-style-type: none"> • NDT



Assistant / Co-pilot Agent

Purpose: To provide a conversational chat interface to allow the user to explore their network through natural language and instruct Aether to perform tasks like creating a test plan or impact assessment for an ITSM change request.

Agentic Design Pattern: ReAct reasoning loop

LLM : Llama3.3

Tools:

- ServiceNow / ITSM – Get Change Request Details, Update Test Plan, Update Impact Assessment
- Other Agents – Test Planner, Impact Assessment, NDM Query Agent

Example: Can you tell me about CHG0030023?

The change request CHG0030023 involves updating the firewall rules for an internal CRM application to allow communication with a new external partner service. Here are the key details:

- **Short Description:** CRM update requires new ACL rules.
- **Description:** The CRM application is undergoing updates, requiring inbound and outbound firewall rule changes to communicate with an external partner service over a new TCP port (8443). The specific rules are:
 - **Inbound:** Allow the external partner IP (203.0.113.10) to reach CRMAPP-SERVER-01 on port 8443.
 - **Outbound:** Allow CRMAPP-SERVER-01 to initiate connections to 203.0.113.10 on port 8443.
 - **Internal:** Allow CRMAPP-SERVER-01 to initiate connections to a new analytics module.

If you need further information or assistance regarding this change request, feel free to ask!



NDM Query Agent

Purpose: To provide a natural language interface with the Aether NDM. Can answer simple fact-finding requests like retrieving the list of device hostnames, and requests requiring multi-step reasoning such as first finding the IP address of a device, and then finding all static routes configured on associated routers which match.

Agentic Design Pattern: ReAct reasoning loop

LLM : Finetuned LLM trained on NDM schema and example queries

Tools:

- NDM – Get Schema, Query

Example: What is the IP address of device crmapp-server-01?

Agent Thought Process:

- LLM Input Reasoning step: thought="To find the IP address of the device named crmapp-server-01, I need to query the NDM using the correct node collection properties. [..]" action='get_node_collection_properties'
- LLM Input Reasoning step: thought="The properties of the device node collection do not contain IP address information. I should use the get_node_collection_properties tool to find the available properties for the 'interface' node collection, as IP addresses are typically associated with interfaces." action='get_node_collection_properties'
- [...]
- LLM Input Reasoning step: thought='I have found the correct properties for the interface.subinterfaces.subinterface[*].ipv4 node collection, which includes IP address information. Now, I can use the query_ndm tool to find the IP address of the device named crmapp-server-01.' action='query_ndm'
- LLM Input Reasoning step: thought='I can now give my best answer to the original input question' response='The IP addresses of the device named crmapp-server-01 are 192.168.255.54, 2.128.1.1, and 127.0.0.1.'



Impact Assessment Agent

Purpose: To perform an impact assessment of the change request based on the desired change not the specific implementation details of the change. It should try to identify potentially affected devices and other impacts such as potential downtime, network performance changes after the change is applied.

Agentic Design Pattern: ReAct reasoning loop

LLM : Llama3.3

Tools:

- NDT – Fork Snapshot, Impact Assessment API
- Other Agents – NDM Query Agent

Example Input: The CRM application is undergoing updates, requiring inbound and outbound firewall rule changes to communicate with an external partner service over a new TCP port (8443). The specific rules are:

Inbound: Allow the external partner IP (203.0.113.10) to reach CRMAPP-SERVER-01 on port 8443.

Outbound: Allow CRMAPP-SERVER-01 to initiate connections to 203.0.113.10 on port 8443.

Internal: Allow CRMAPP-SERVER-01 to initiate connections to a new analytics module.

Example Output

Proposed Changes: Updating firewall rules to allow communication between the internal CRM application and a new external partner service.

Affected Device: border1 in the ACL_IN layer.

Potential Impacts: Minimal downtime during rule application. Negligible performance impact due to straightforward rules. Enhanced security by controlling access to the CRM application.



Test Planner Agent

Purpose: To generate a high-level test plan based on the desired outcome of the change request. The test plan should not include details about how the test should be executed. It should use information about the current network configuration to inform the design of the tests, so they focus narrowly on the change being made.

Agentic Design Pattern: ReAct reasoning loop

LLM : Llama3.3

Tools:

- Other Agents – NDM Query Agent

Example Output:

Test Plan for ITSM Change Request: CRM Application Update

Objective To validate the changes made to the firewall rules for the CRM application to ensure proper communication with the new external partner service while maintaining the integrity of the existing network.

Test Cases

- **Test Case 1: Validate Inbound Firewall Rule**
 - Description: Verify that the inbound firewall rule allows traffic from the external partner IP (203.0.113.10) to the CRM application server (CRMAPP-SERVER-01) on TCP port 8443.
 - Expected Result: Successful connection attempts from 203.0.113.10 to CRMAPP-SERVER-01 on port 8443 should be established.
- **Test Case 2: Validate Outbound Firewall Rule**
 - Description: Verify that the outbound firewall rule allows the CRM application server (CRMAPP-SERVER-01) to initiate connections to the external partner IP (203.0.113.10) on TCP port 8443.
 - Expected Result: Successful connection attempts from CRMAPP-SERVER-01 to 203.0.113.10 on port 8443 should be established. [..]

Conclusion

This test plan outlines the necessary tests to validate the changes made to the firewall rules for the CRM application. Each test case is designed to ensure that the intended functionality is achieved without negatively impacting the existing network services or security posture.



Test Executor Agent

Purpose: To take the test plan associated with the ITSM ticket, and a change candidate proposed by a network engineer and execute the tests using the Aether NDT. It will decide the best way to implement each test in the plan using the functions available from the NDT, finally outputting a test report explaining what it did for each test and the result.

Agentic Design Pattern: Agentic Workflow

LLM : Llama3.3

Tools:

- NDT – Fork Snapshot, Apply Changes, Verifications
- Other Agents – NDM Query Agent

Example Input:

Change Description: The router core1 needs maintenance and its forwarding needs to be updated to remove all traffic going through it. Once there is no traffic going through it, its maintenance can safely happen.

Test Plan: [..] Change

Candidate: <https://github.com/cisco-eti/aether-networks-configs/pull/147>

Example Output

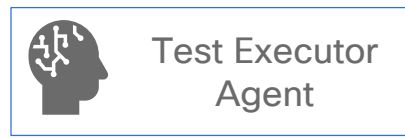
Test Report

Description: Confirm there is no traffic going through core1.

- Methodology
 1. Queried the network for the current traffic status on the router core1.
 2. Conducted a reachability test to confirm if there are any flows currently passing through core1.
- Result: Success
 - Details: The initial query revealed varying levels of traffic on core1, particularly on the GigabitEthernet8 interface. However, the subsequent reachability test confirmed that there are no flows currently passing through core1, meeting the expected result of having no traffic.

[...]

Agent - NDT interactions



Change intent

diff

Test plan

Test₁
Test₂
...



$S_1 = \text{FORK}()$



$S_2 = \text{UPDATE}(S_1, \text{diff})$



$S_3 = \text{COMPUTE}(S_2)$



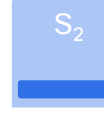
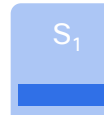
$\text{VERIFY}(S_3, \text{Verification}_1, \dots)$



success, counterexample



NDT API



Map verification in tool catalog

GET/COMPUTE missing layers

VERIFY (call tool)

TOOL CATALOG

INGESTION

Batfish

Parsing

COMPUTE (Layer)

Batfish

Data plane



KG query

Topology, Demand



RouteNet

Traffic perf

VERIFY

Batfish

Reachability, ...



KG query

Consistency, SLA

Diffy

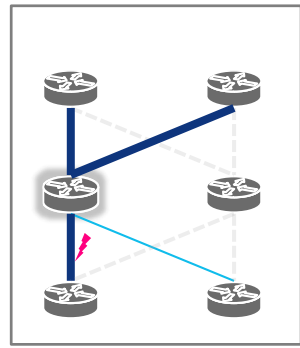
Anomalies



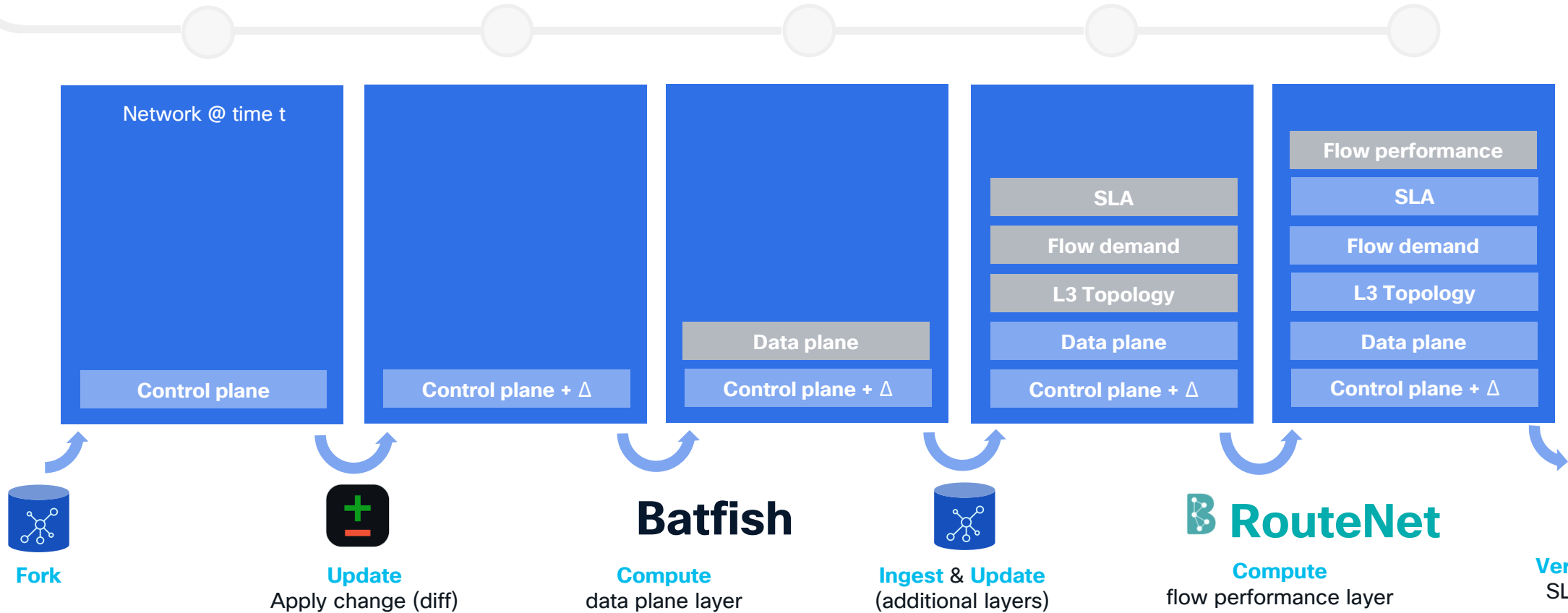
Batfish



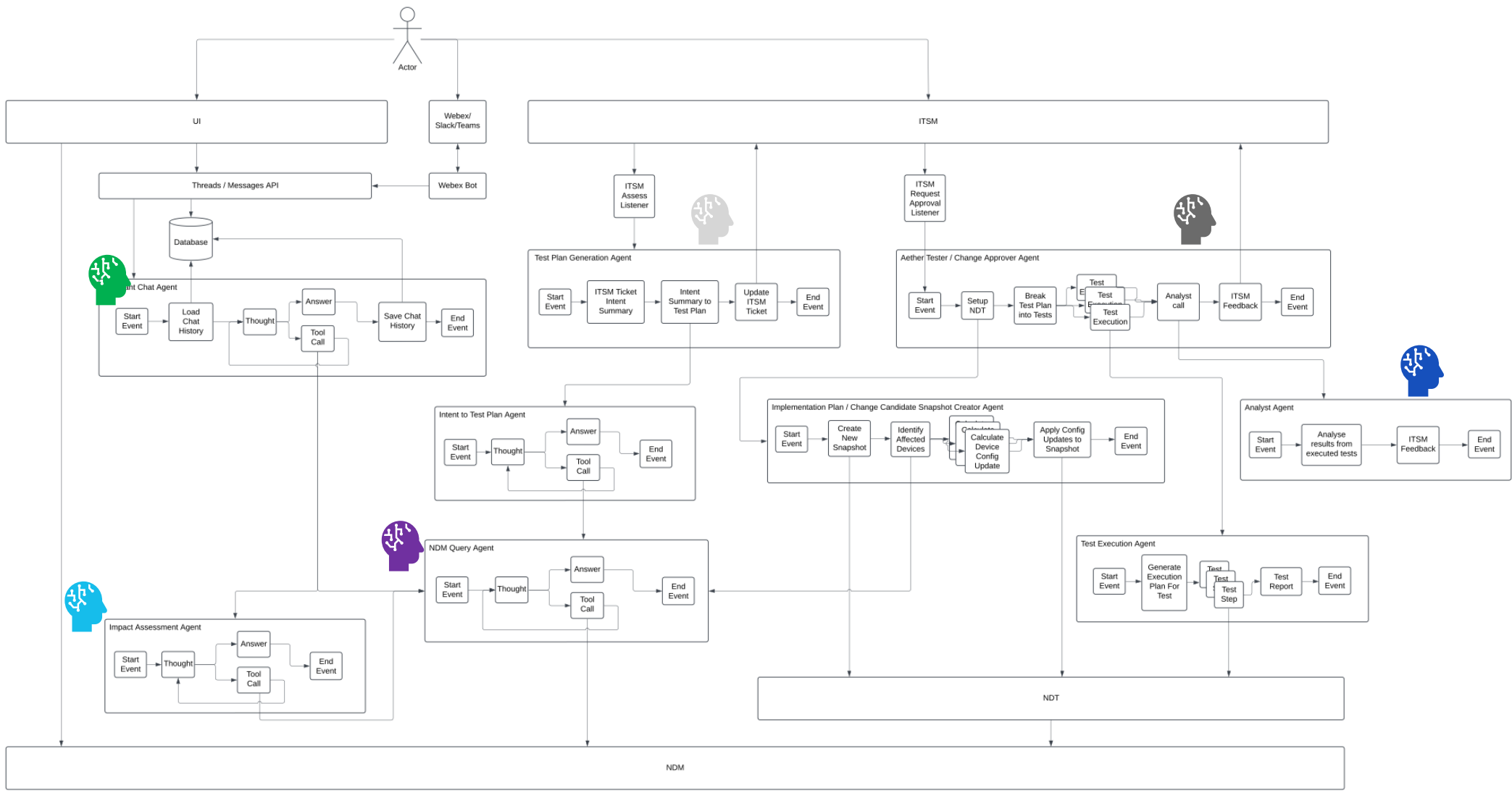
NDT - SLA and traffic performance



CHANGE

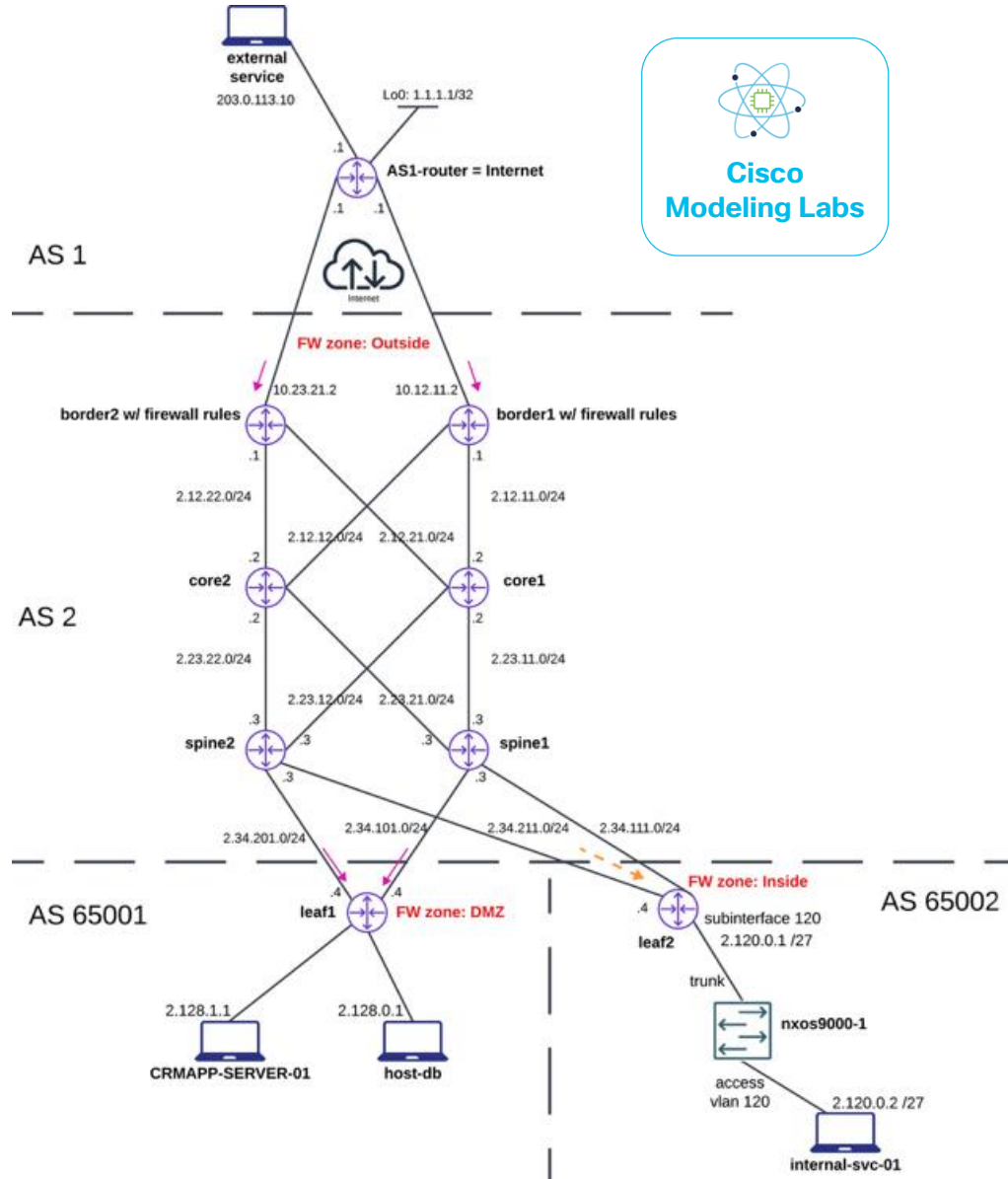


Architecture for Change Validation Agentic App



DEMO: Change Validation Use case

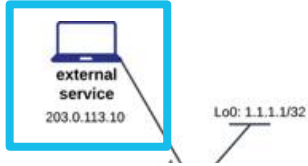
Demo: ACL/firewall rule change



An internal CRM application is undergoing updates, and the server needs to communicate with a new external partner service over a previously unused port and requires inbound and outbound firewall rule changes. This update introduces a new API that uses a new TCP port for communication with the external partner.

- **Inbound:** Allow the external partner IP **203.0.113.10** to reach **CRMAPP-SERVER-01** on port 8443.
- **Outbound:** Allow **CRMAPP-SERVER-01** to initiate connections to 203.0.113.10 on the same port (8443). **ALREADY ALLOWED**
- **Internal:** Allow **CRMAPP-SERVER-01** to initiate connections to a new analytics module

Demo: ACL/firewall rule change



prod_network/active_confs/configs/border1.cfg

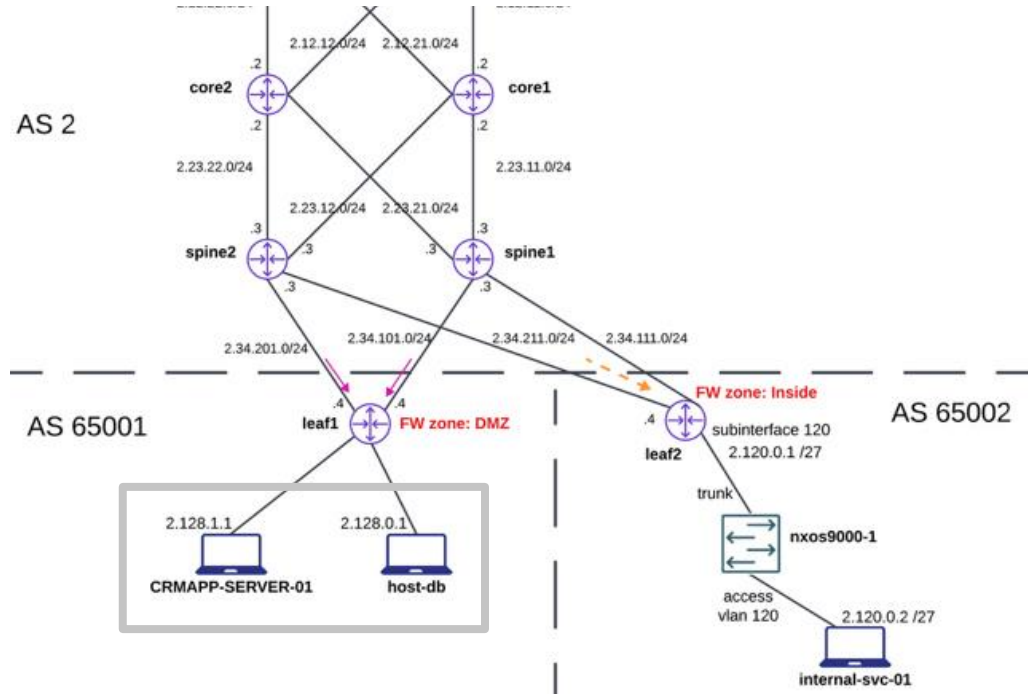
FIRST COMMIT: Wrong netmask

```

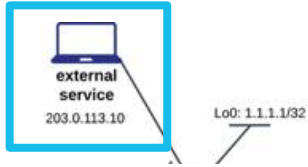
@@ -246,6 +246,7 @@ ip access-list extended OUTSIDE_TO_INSIDE
246 40 permit tcp 10.12.11.0 0.0.0.255 10.12.11.0 0.0.0.255 eq bgp
247 50 permit icmp 1.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255
248 60 permit icmp 203.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255

249 101 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp-data
250 102 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp
251 103 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.2 eq ftp-data

+ 70 permit tcp 203.0.113.10 0.0.0.255 2.128.1.1 0.0.1.0 eq 8443
  
```



Demo: ACL/firewall rule change



```
prod_network/active_confs/configs/border1.cfg
```

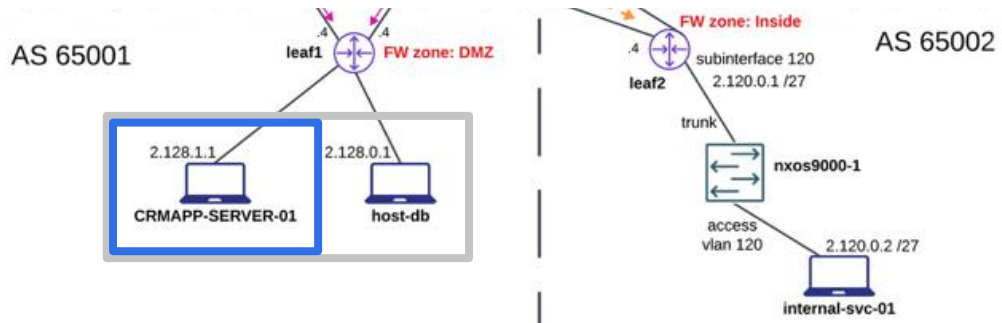
FIRST COMMIT: Wrong netmask

Line	Configuration	Configuration
246	40 permit tcp 10.12.11.0 0.0.0.255 10.12.11.0 0.0.0.255 eq bgp	246 40 permit tcp 10.12.11.0 0.0.0.255 10.12.11.0 0.0.0.255 eq bgp
247	50 permit icmp 1.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255	247 50 permit icmp 1.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255
248	60 permit icmp 203.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255	248 60 permit icmp 203.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255
249	101 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp-data	249 + 70 permit tcp 203.0.113.10 0.0.0.255 2.128.1.1 0.0.1.0 eq 8443
250	102 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp	250 101 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp-data
251	103 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.2 eq ftp-data	251 102 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp
252		252 103 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.2 eq ftp-data

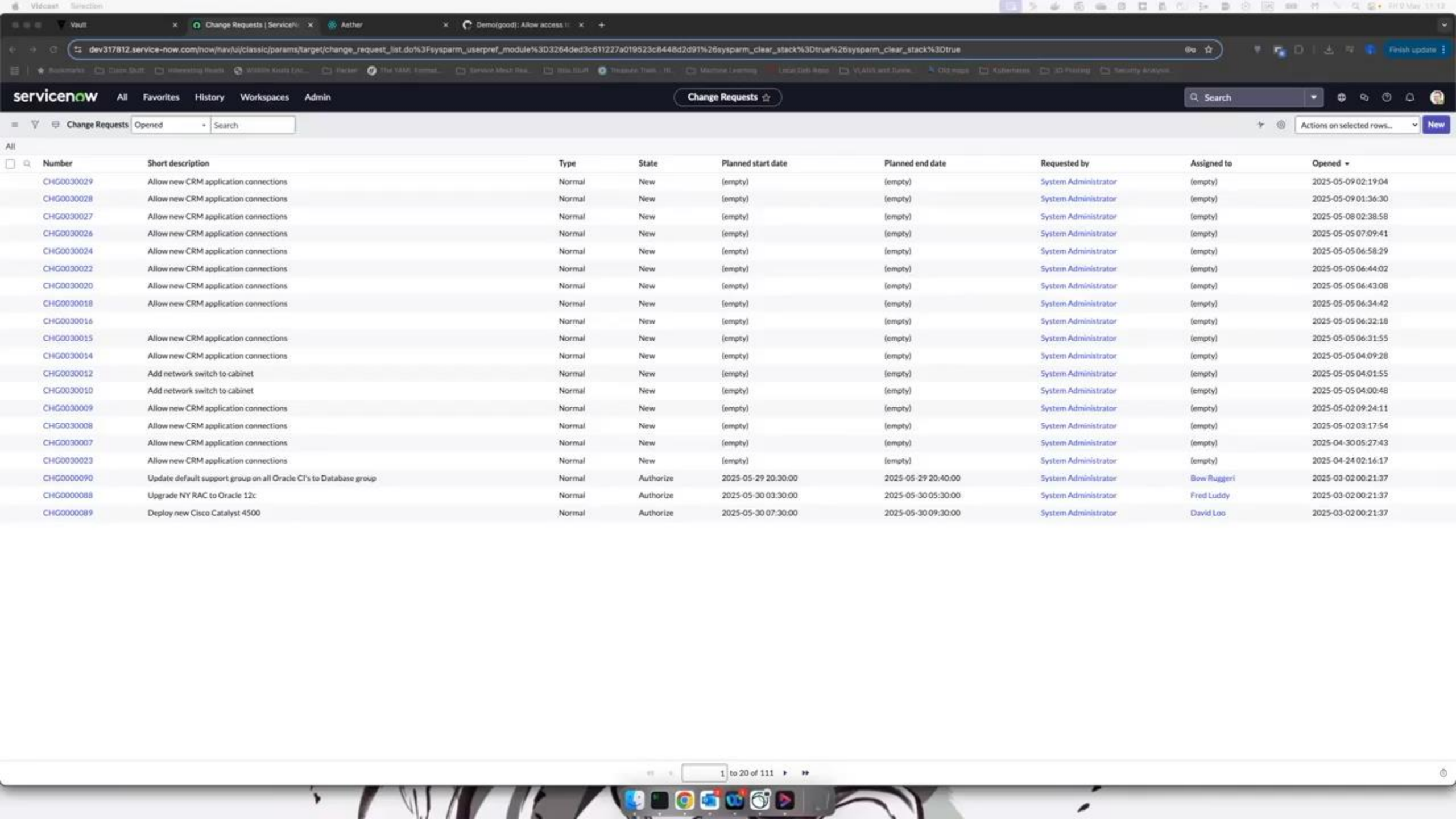
```
prod_network/active_confs/configs/border1.cfg
```

SECOND COMMIT: Fix

Line	Configuration	Configuration
246	40 permit tcp 10.12.11.0 0.0.0.255 10.12.11.0 0.0.0.255 eq bgp	246 40 permit tcp 10.12.11.0 0.0.0.255 10.12.11.0 0.0.0.255 eq bgp
247	50 permit icmp 1.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255	247 50 permit icmp 1.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255
248	60 permit icmp 203.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255	248 60 permit icmp 203.0.0.0 0.255.255.255 2.0.0.0 0.255.255.255
249	- 70 permit tcp 203.0.113.10 0.0.0.255 2.128.1.1 0.0.1.0 eq 8443	249 + 70 permit tcp 203.0.113.10 0.0.0.255 2.128.1.1 0.0.0.0 eq 8443
250	101 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp-data	250 101 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp-data
251	102 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp	251 102 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.1 eq ftp
252	103 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.2 eq ftp-data	252 103 permit tcp 203.0.113.0 0.0.0.255 host 2.128.0.2 eq ftp-data



Network Digital Map



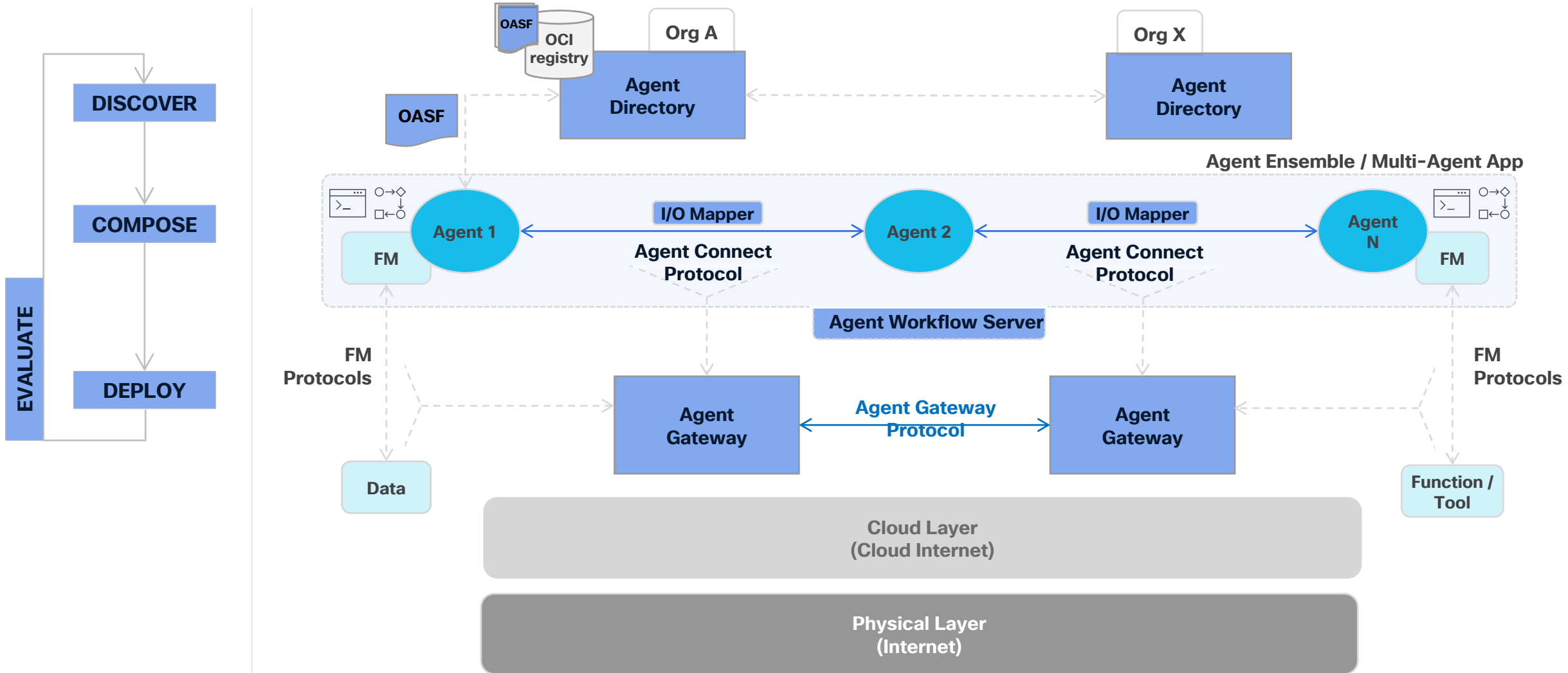
Number	Short description	Type	State	Planned start date	Planned end date	Requested by	Assigned to	Opened
CHG0030029	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-09 02:19:04
CHG0030028	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-09 01:36:30
CHG0030027	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-08 02:38:58
CHG0030026	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 07:09:41
CHG0030024	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 06:58:29
CHG0030022	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 06:44:02
CHG0030020	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 06:43:08
CHG0030018	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 06:34:42
CHG0030016	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 06:32:18
CHG0030015	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 06:31:55
CHG0030014	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 04:09:28
CHG0030012	Add network switch to cabinet	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 04:01:55
CHG0030010	Add network switch to cabinet	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-05 04:00:48
CHG0030009	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-02 09:24:11
CHG0030008	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-05-02 03:17:54
CHG0030007	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-04-30 05:27:43
CHG0030023	Allow new CRM application connections	Normal	New	(empty)	(empty)	System Administrator	(empty)	2025-04-24 02:16:17
CHG0000090	Update default support group on all Oracle CI's to Database group	Normal	Authorize	2025-05-29 20:30:00	2025-05-29 20:40:00	System Administrator	Bow Ruggeri	2025-03-02 00:21:37
CHG0000088	Upgrade NY RAC to Oracle 12c	Normal	Authorize	2025-05-30 03:30:00	2025-05-30 05:30:00	System Administrator	Fred Luddy	2025-03-02 00:21:37
CHG0000089	Deploy new Cisco Catalyst 4500	Normal	Authorize	2025-05-30 07:30:00	2025-05-30 09:30:00	System Administrator	David Loo	2025-03-02 00:21:37

DEMO:
Agentic tools and
Internet of Agents framework

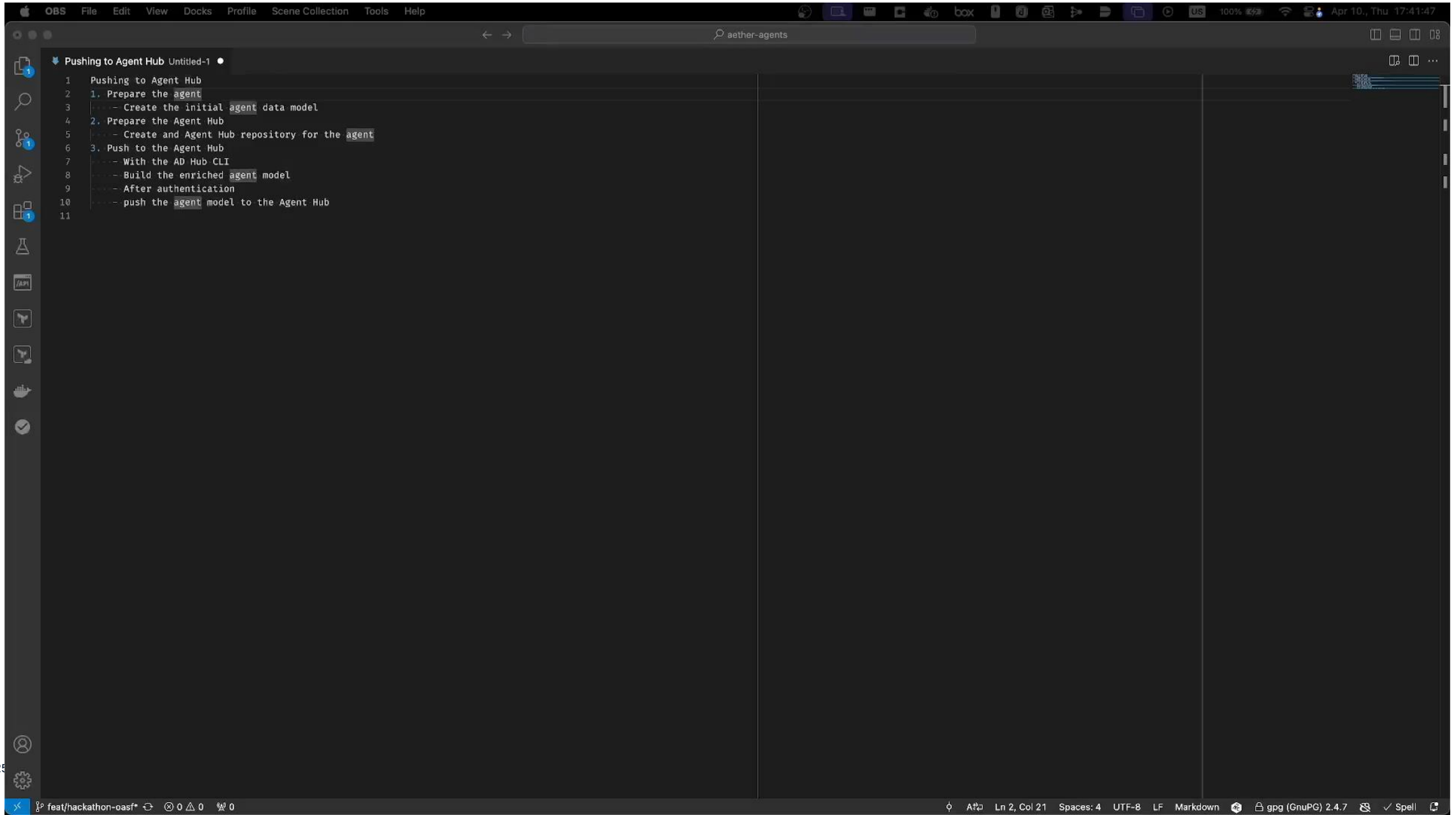
Developing Agents with



An Open-Source Internet of Agents initiative



Discovering agents in Agent Directory



```
Pushing to Agent Hub Untitled-1 •
1 Pushing to Agent Hub
2 1. Prepare the agent
3   -- Create the initial agent data model
4 2. Prepare the Agent Hub
5   -- Create and Agent Hub repository for the agent
6 3. Push to the Agent Hub
7   -- With the AD Hub CLI
8   -- Build the enriched agent model
9   -- After authentication
10  -- push the agent model to the Agent Hub
11
```

Observing Agents

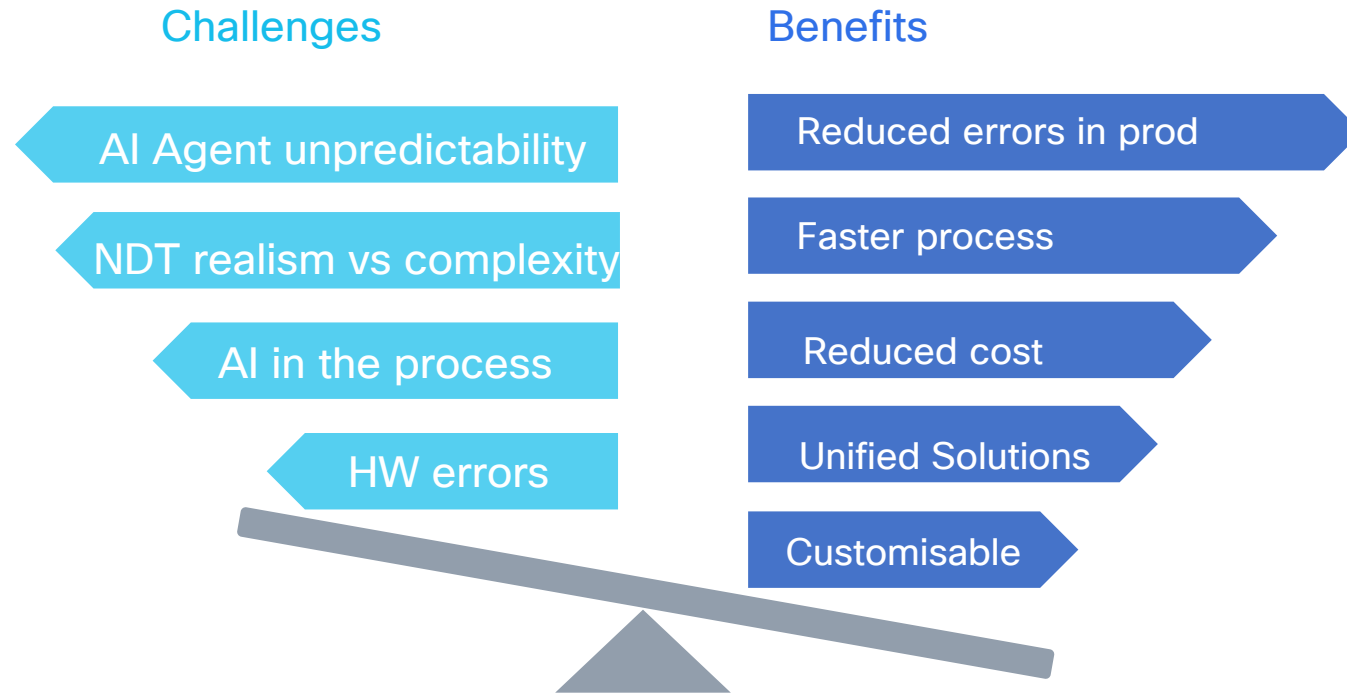
The screenshot shows a web browser window with the following details:

- Browser:** Chrome, with the address bar showing `localhost:3000/observability`.
- Page Title:** Poirot
- Sidebar:** Contains three menu items: **Observability** (selected), **Evaluation**, and **Optimization**.
- Main Content:**
 - Section header: **Observability**
 - Sub-section header: **Projects**
 - Table with columns: **Name**, **Version**, **Sessions**, **Status**, **Cost (tokens)**, and **Timestamp**.
 - The table is currently empty, displaying a blue loading spinner in the center.

Conclusions

Network Change Validation processes can be effectively enhanced by an agentic NetDevOps solution relying on a multi-layer Network Digital Map (NDM) and Network Digital Twin (NDT)

Lessons learnt



Future Extensions

- Use cases related to post-deployment testing/troubleshooting
- 3rd party NetOps agent integration and new agents' composition supported by AGNTCY/loA
- Hybrid deployments (on-prem/in the cloud) supported by AGNTCY/loA
- Ongoing customer trial and planned integrations in Cisco portfolio

If you want to learn more

on Agentic Network Change Validation

Giovanna Carofiglio gcarofig@cisco.com

Jordan Augé augjorda@cisco.com

Ola Mabadeje omabadej@cisco.com

on Agentic initiatives by Cisco Outshift



Complete your session evaluations



Complete a minimum of 4 session surveys and the Overall Event Survey to be entered in a drawing to win 1 of 5 full conference passes to Cisco Live 2026.



Earn 100 points per survey completed and compete on the Cisco Live Challenge leaderboard.



Level up and earn exclusive prizes!



Complete your surveys in the Cisco Live mobile app.

Continue your education



Visit the Cisco Showcase for related demos



Book your one-on-one Meet the Engineer meeting



Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs



Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand

Thank you

CISCO Live !

