Data Sheet
NetACE

Open, Multi-vendor, Multi-technology Network Automation Framework

CSP networks become more and more multi-vendor, multi-technology, virtual and cloud, open and disaggregated.
So, they need Network Discovery & Automation solution to

- simplify their operations,
- reduce OPEX and error prone activities,
- have consistent real-time view across their networks, and
- increase customer experience

Atrinet NetACE model-based Network Discovery & Automation solution helps CSPs to automate their management and operations of multi-vendor multi-technology networks, like 5G, Private Wireless, Open RAN, and Transport networks, using an open model-based approach.

Atrinet NetACE – Open, Vendor-agnostic, Multi-technology Network Automation

NetACE provides real-time auto-discovery of networks' data for efficient network operations and automation with full-FCAPS capabilities – Discovery, Fault, Configuration, Performance and Security management.

Key Functional Pillars

- **Network Resource and Service Automation** – Vendor-agnostic platform and open APIs automate network and service activation tasks

- **Activation, ZTP and LTO** – Allows real-time configuration changes, zero-touch provisioning based on constraints and policies with end-to-end management

- **100% accurate and real-time Network discovery** – Discover, manage, and reconcile physical and logical networks and services data in real-time

- **Codeless model-driven Open Design Portal** – For ultrafast design and on-boarding of new services, vendors, technologies, policies, and workflows

- **Performance Monitoring and Fault Management –** Enables performance monitoring and faults across hybrid physical and virtual networks, services, and applications

Atrinet NetACE business value to CSPs

- Reduced Network Operation OPEX
- Reduced TTM to onboard new network vendor and technology
- Reduced service turn-up time for both traditional and virtual networks
- Efficient and effective end-to-end network visibility and operations based on accurate data
- Improved quality through reduced error potential and less repetitive manual work
- Reduced dependency on network vendors' systems & experts

NetACE's GUI-based self-service Open Design Portal simplifies the complex process of onboarding new network elements, resources, vendors, and workflows, transforming months of custom development into weeks' turnkey projects.

NetACE

# Open Network Automation Framework for many Use-Cases

NetACE supports many Network Automation Use-Cases for OSS and Network Controller solutions (partial list)

- Inventory Data Integrity – Discovery & Reconciliation
- Inventory Federation
- 5G Assurance (PM, FM, Slice monitoring)
- Configuration Management
- Unified Service Activation (mobile & fixed)
- 5G Transport Manager
- Private Wireless Network Management
- Data Center Network Automation
- TIP Open Automation
- Open RAN Automation
- Vendor-Agnostic EMS
- White-Label NMS

NetACE Open Network Automation Framework Concepts

- Modular and flexible solution where the customer can start with one module and grow easily
- Can be used with broad OSS functionality or with a selected OSS module
- Based on standard functionalities, Open-Source modules, and standard NaaS Open APIs
- Scalable, cloud-native, microservice-based and can run on any Private or Public cloud
- Powered by artificial intelligence (AI) and machine learning (ML) algorithms, changing how operators find answers to their problems
- Vendor-agnostic, adapter-free southbound interfaces – NETCONF/YANG, SNMP, CLI, TL1, SOAP/XML, REST, Corba, S/FTP
- Northbound programmatic APIs for rapid integration with OSS/BSS – REST, NETCONF / RESTCONF YANG, TMF641/640, MEF, TAPI 2.0, gRPC)

NetACE Open Network Automation Framework
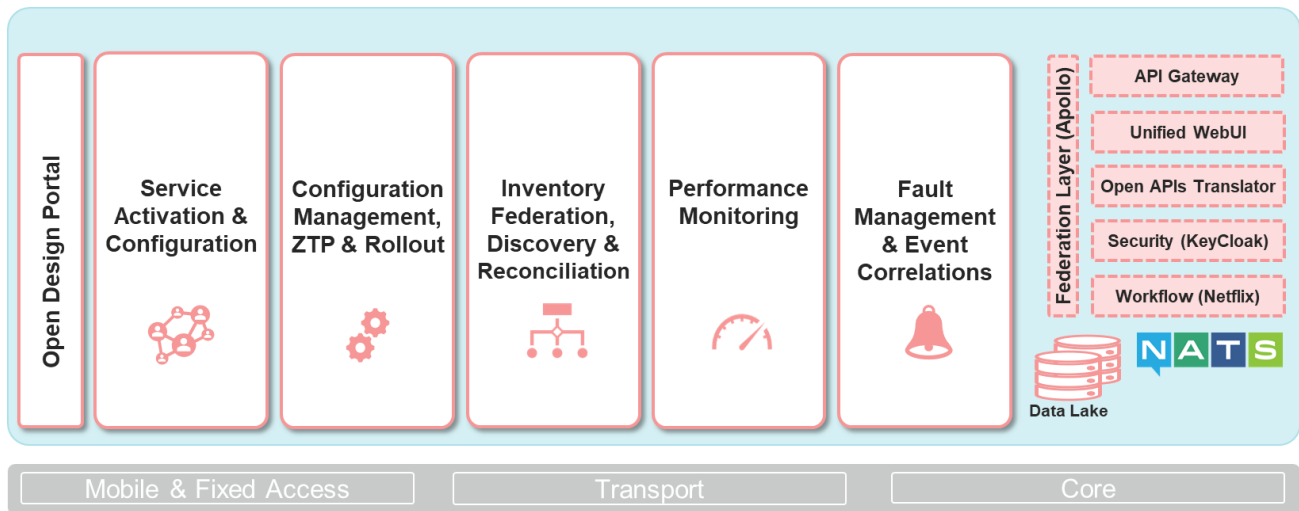
Open, Scalable, Model-Driven, Vendor-Agnostic

Service-Aware
NetACE provides a specification of how a network service shall be applied to the network infrastructure. This simplifies service configuration mapping and changes to device configuration commands. The entire service lifecycle is supported including designing, creating, modifying, and deleting service instances.

Model-Driven
Services are specified in declarative YANG RFC 6020 and/or rich native data models using codeless on-screen design tools that are engineer-friendly and do not require programmer skills to manipulate.

Fail-Safe
NetACE applies service changes as a minimal change-set using distributed transactions. This ensures that the network is always in a consistent state and can automatically recover when configuration changes fail.

Real Time
NetACE maintains an accurate and synchronized copy of the network configuration state. OSS and Orchestration systems can be kept in sync with the network in real time using NetACE's publish-subscribe APIs.
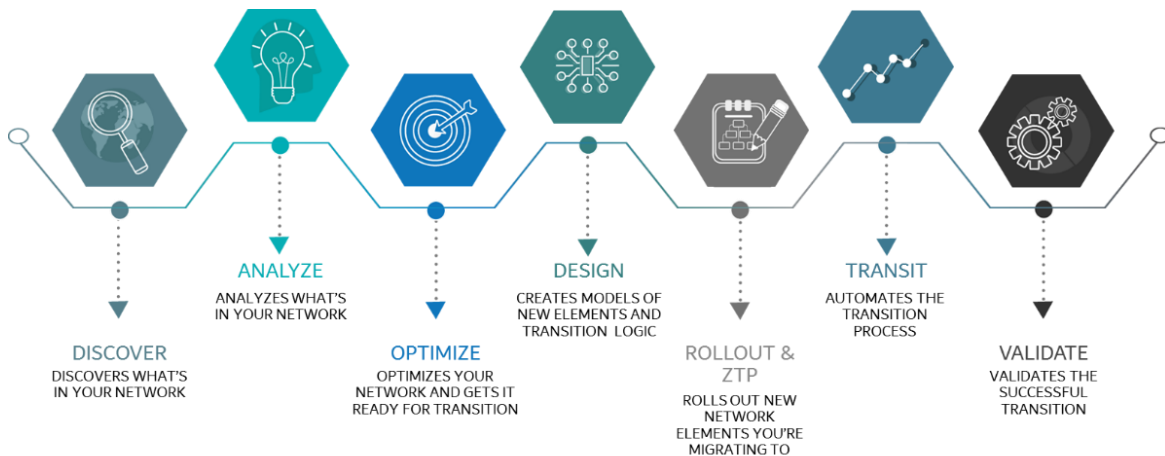
Atrinet Professional Services
Atrinet offers its suite of professional services alongside the NetACE product. These services include all system installation and integration, design, and modeling to ensure that NetACE is properly integrated into your network operations center.

The Atrinet Services team validates that all interfaces function properly and verifies that systems are operating to expectations. We work with you to modernize your network and provide consulting on use case development. These services ensure readiness for NetACE deployment and assist you in getting the best possible outcome.

Atrinet Integration Services
There is much more to network migration than just reading a configuration from one device or server and mapping it to new elements. That's why, in addition to NetACE itself, Atrinet offers a suite of dedicated Integration Services to complement NetACE capabilities and accelerate network migration projects with methodology and experience. Atrinet network and software professionals will help you on site or remotely to build and smoothly execute a precise migration plan based on network discovery and understanding insights gathered in real-time.

DISCOVER — DISCOVERS WHAT'S IN YOUR NETWORK

ANALYZE — ANALYZES WHAT'S IN YOUR NETWORK

OPTIMIZE — OPTIMIZES YOUR NETWORK AND GETS IT READY FOR TRANSITION

DESIGN — CREATES MODELS OF NEW ELEMENTS AND TRANSITION LOGIC

ROLLOUT & ZTP — ROLLS OUT NEW NETWORK ELEMENTS YOU'RE MIGRATING TO

TRANSIT — AUTOMATES THE TRANSITION PROCESS

VALIDATE — VALIDATES THE SUCCESSFUL TRANSITION

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