

Network Automation For Everyone

Reclaim 60% of your Time with Intelligent Automation

AI-Powered Automation Software to Networking to Help Simplify Broad Adoption of Network Automation.Streamline manual processes with programmable logic

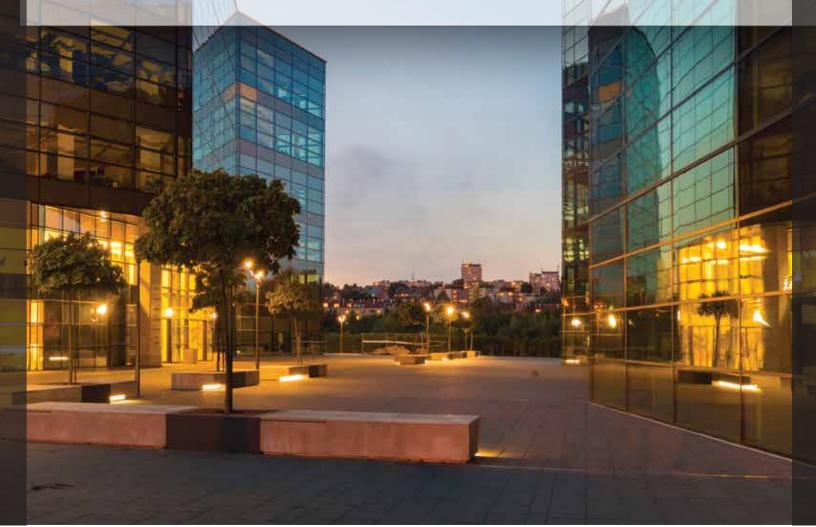




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Why is Network Automation Important?

Today's Enterprise and Communication Service Provider (CSP) networks are becoming dynamic and heterogeneous. The requirement to constantly change network parameters and configurations to meet customer expectations creates huge amounts of complexity.

From one perspective, automation in a network context is not new. Yet traditional approaches to automation only meant things like pushing out some basic configurations to routers and switches.

In a more complex environment of larger and growing networks, automation is one of the technology-based solutions that is vital to turning distributed networks into business value. Today's IT has a heavy focus on rapid development and a DevOps mindset. New network automation capabilities are critical to keep pace with rapid-release cycle times and constant iterations of capabilities.

Application developers expect dynamic server and storage capacity to meet always-evolving needs. To support these trends, companies need to be able to look at the underlying network end-to-end, from device to cloud. Automation is the key to making sure that network changes or updates are seamlessly configured and translated across different IT environments.

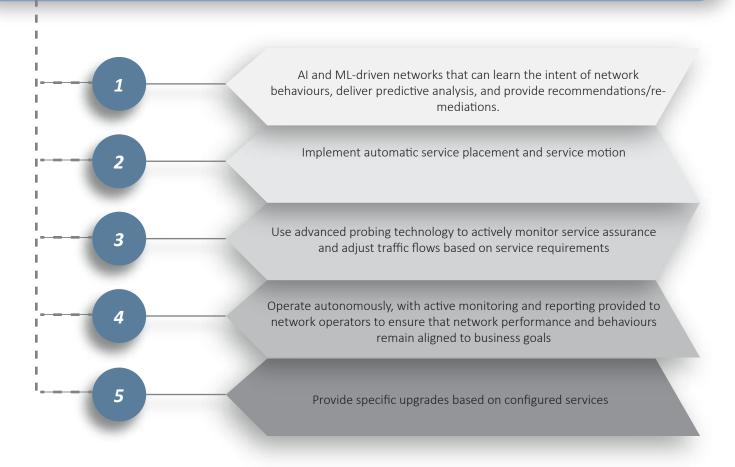
Network automation uses programmable logic to manage network resources and services. It allows NetOps teams to rapidly configure, scale, secure, and integrate network infrastructure (layers 1-3) and application services (layers 4-7). Telecommunications service providers were among the first to adoptnetwork automation to streamline their fast-growing web-scale networks, but all organizations can now benefit from network automation technologies

Reclaim 60% of your Time with Intelligent Automation

From your Network Operation workflows to change management process, we've got you covered with intelligent network automation. Discover how leading companies are transforming.

ATNIS leads Network Automation and Configuration Management processes with aim to automate disaster recovery, change management and configuration auditing painless and affordable for a network of any size. Our Network Automation Solutions include

Our Network Automation Solutions



Our mission as a business is to optimize the functionality of our customers' networks.

Our broad portfolio of automation solutions, services, and use cases will benefit your business with faster service delivery, reduced expenses, and a more secure, stable network. Our Network automation offers the enterprises reduced cost and greater simplicity and agility in leveraging the powerful capabilities within their networks

FULL-STACK Automation Platform

Our multivendor integrated Network Automation solutions platform combines the best of both worlds. It integrates with Ansible and Python. And it also offers configuration management, validation and (intent-based) automation.



Improve network a vailability & security by validating and enforcing compliance policies and rules across your entire network.

Improve time to market and reduce cost by easily automating changes, jobs, upgrades, services and workflows.

Improve time to market and reduce cost by easily automating changes, jobs, upgrades, services and workflows.

Get in full control. Simply define your intent and let the platform ensure that your networks get deployed as-designed.

How do we choose the right Network Automation Tool?

Measure twice and cut once! Before we fully commit to one solution or another (or a hybrid of solutions). Our selection is based on 3 principles of Automation



Customer Goals

What is the underlying programming language: Python, Ruby, or something domain specific

Technical Assessment

What is the underlying programming language: Python, Ruby, or something domain specific

Operation Maturity

What is the underlying programming language: Python, Ruby, or something domain specific



ATNIS Network Automation Solutions

While evaluating potential solutions, we focus on barrier to entry? How mature is the solution in terms of documentation, industry adoption, and training? How easily can it help classically trained infrastructure staff to adopt a DevOps mindset?

ATNIS Automations practices focus on Open-source network automation tools which includes to PYTHON, pyATS framework, NAPALM, GO and Netmiko. Our Automation practices is supported by partnership with leading automations partners



Our customised Adaptive Applications & Plugins leverages a robust library of Adaptive Plugins and Applications that facilitates continuous updates, improves threat detection and policy enforcement, and provides instant access for users and applications.

Our Adaptive Plugins and Applications work with any environment and helps to optimize existing IT investments

We lead the productn integration which include:

Networking: Cisco, VMware, Microsoft, Nutanix, OpenStack, ServiceNow & Ansible.

Cloud: AWS, Azure, Google Cloud Platform

Security: Palo Alto, Cisco, Splunk, IBM, Archsight, Crowdstrike, and more

We allow organizations to build, verify, and validate modules in a test environment and then easily promote them to a production environment. This modular approach simplifies change and workflow management via an intuitive interface that eliminates the need to train users on complex technical processes while preventing costly mistakes.We automate the DNS services necessary to provision and deallocate cloud and on-premise resources, enabling IT to respond faster to user requests. Automated cloud provisioning reduces bottlenecks in delivering cloud services that all too often result in shadow IT, minimizing security risks and excessive costs that IT is unable to manage



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Maximize Agility and Security with Policy-Based Automation across the Hybrid Network

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ATNIS Solution for Orchestration Suite



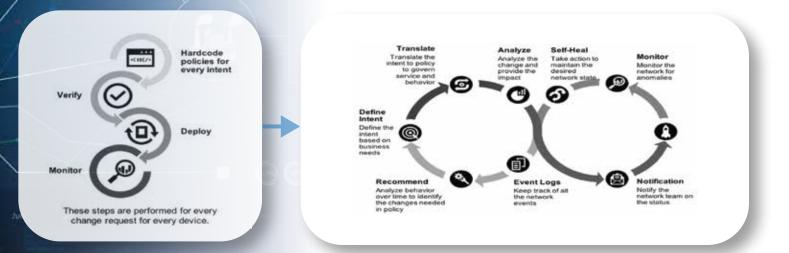
Our Customnised Orchestration Suite provides a policy-centric solution for automatically designing, provisioning, analyzing and auditing enterprise security changes for the world's largest, most complex networks. From applications, to containers and firewalls, We provides advanced security policy management automation to enhance business agility and accuracy, by eliminating manual errors, and ensuring continuous compliance via a single console

Managing Network Changes in Dynamic Heterogeneous Environments

Our customised Orchestration Suite enables network security change automation across heterogeneous environments to:

• Orchestrate and automate security control changes gaining SDN-equivalent agility while ensuring application connectivity and business continuity

- Optimize your firewalls and Other security devices
- Provide fast, accurate and auditable process for network security change delivery
- Boost security and compliance as part of the network security change process
- Proactively analyze risks associated with network security changes prior to the actual change
- Securely integrate hybrid cloud technologies with the enterprise network



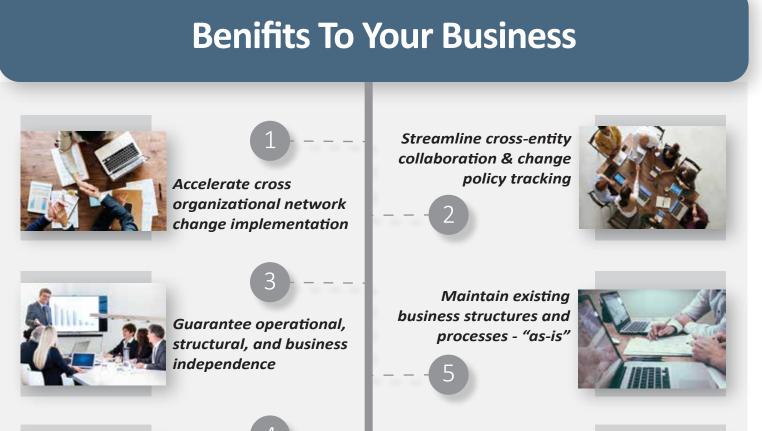
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Supporting continuous improvement and dot releases

When network managers can automatically upgrade everything remotely, they can do it incrementally, without needing a large and lengthy transformation program.

Our Customnised Orchestration Suite provides a policy-centric ATNIS lead the deployment of powerful IT automation platform that helps you streamline and manage complex datacenter environments, network upgrades and change management. We expertise in custom codes to support legacy and open network infrastructure devices across multivendor virtual and physical environments so you can automate your entire network using a single tool. Using a common language, We makes everyday tasks repeatable and scalable so you can run your network more efficiently. Choose to automate where you need it most. Our flexible framework embraces incremental change, so you can start small and expand over time.





Ensure data segregation and separation

Increase overall network integrity & consistency





Network Automation Tips and Tricks for NetOps

What should companies be doing to increase the presence of automation in their network capabilities? Here are a few imperatives:

When it comes to starting in NetOps, think big by ensuring your horizon extends beyond the network domain. There will always be links into the application domain, with or without cloud, operations, partners and the like

Scripting languages

The area of network automation that confuses people the most is figuring out which scripting language or languages you're going to need to achieve your automation goals. If your operating legacy network equipment, you don't have too many native options.

One thing to keep in mind is that natively supported APIs are going to yield a far easier path. You could script using more rudimentary methods such as screen- or CLI-scraping. But leveraging APIs is going to give you a far better and more reliable experience.

Identify Bottlenecks

In this step, you are looking at where change can have the biggest impact and where you can make change happen. Areas rich for improvement are those with multiple manual steps, particularly between teams. Think about how you currently handle reviews, approvals and testing. How could you change these to streamline the workflow? Do you have the authority or influence to champion these changes?

Mapping of Workflow

While you want to move fast, you don't want to skip this essential step to truly understand what is going on. Document every step. Laying it out forces everyone to clearly see and agree to how things are working today. This puts rigor into the logic, ensures all "tribal knowledge" has been documented, and aids with collaboration. Remember to include interactions and interdependencies that occur outside the network. After all, across domains is where many of today's manual handoffs and delays exist.

Improve

Once your automated workflow is operational, you will likely notice other ways to improve and build your momentum. This is your Move Fast. These improvements could be in scale, automating more steps, or extending to new parts of the process. That's great. You now have a next project to repeat the steps and keep learning and building your NetOps prowess.

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ATNIS Network Automation Use Cases

Orchestrate Services across a multi-vendor SD-WAN environment through standard API Integration. Offer self-service portals to enterprise customers

Automation of Network Device Configuration Using Zero-Touch Network Provisioning & Firewall Piolicy Management

Reduce outages through workflows and automation.Security incident response Automation of Configuration Drift, Security compliance and Monitoring

Automation of network software upgrade, Automate workflows with pre- and post-checks

Change control integration of Firewalls to Improve productivity by automating firewall optimization

Hardware and Software Inventory Data Automation, automanted workflow for tools integtaion of new inventories.

Define service catalogs, discover services periodically or on-demand and provision them automatically



How ATNIS Enables Network Automation

Adopting network automation will significantly simplify your security infrastructure operations. Our Auto-Detect and Auto-Triage capabilities can take a few things off your plate or help you save the day. To summarize the key benefits of Indeni's secure infrastructure automation solution are:

Optimize the performance of the security infrastructure. Active monitoring combined with auto-triage streamline IT operations enabling you and your team to deliver optimal security services at the desired quality to the business. Automate data enrichment to save you time for these otherwise time-consuming tasks. Now you have more free time for more strategic tasks. Work more effectively. Indeni automation modules will surface useful and actionable information that will immediately facilitate your work

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Conclusion

Networks have fundamentally shifted with intentbased networking to become more flexible, intuitive and interoperable—supported through automation and machine learning to become predictive and self-healing.

Companies can focus on repeatable changes that have a high success rate historically and apply end-to-end automation to implementation and governance processes. Companies should be moving quickly to automate critical network activities because the value proposition is strong. Costs can be reduced significantly, and people can be deployed to work on higher-value activities. Quality improves because less human intervention is required. Speed to value increases dramatically because, with automation, the management and provisioning of millions of devices can happen instantly. Enterprise solutions can be delivered seamlessly as capabilities in a platform. Today's highly virtualized, cloud-enabled networks also require a new security approach to address the high rate of business change and ever-evolving security threats. Automation can provide constantly updated, secure access from device to cloud. Finally, automation is essential to meet the scope and scale of IoT and other new technologies. Companies today may have 10,000 or more network devices. That sounds like a lot, but tomorrow's sensors and devices will dwarf that number by orders of magnitude. The old way of manually updating network equipment doesn't work for virtual networks of sensors. Future technologies like artificial intelligence and upgrading tomorrow's blockchain will require flexible new network capabilities. In other words, the future really does depend on network automation



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