

# INFOSYS INTELLIGENT NETWORK PLATFORM

DELIVERING END-TO-END NETWORK AUTOMATION FOR ENTERPRISES

Infosys  
cobalt



Rapid cloud adoption, ongoing changes, and a compelling need for cost control have increased complexity in network infrastructure for businesses. These factors combined with digital transformation, mobility, and network-as-a-service adoption are driving enterprises to adopt network automation to resolve the challenges involved in integration, speed, and complexity.

Enterprises today have a significant focus on network automation across all network domains spanning data center, cloud, WAN, and LAN. Automation is the foundation on which next-generation functions such as Intent-based networking, AIOps, network as code, and NetDevOps are built. Although most of the software-defined networking (SDN) solutions available have the capability for automated provisioning and policy-based management, the need for automation is becoming increasingly relevant. In fact, network automation is showing an upward trend with more focus on the discovery, integration, and testing aspects of multi-vendor and multi-device infrastructure.

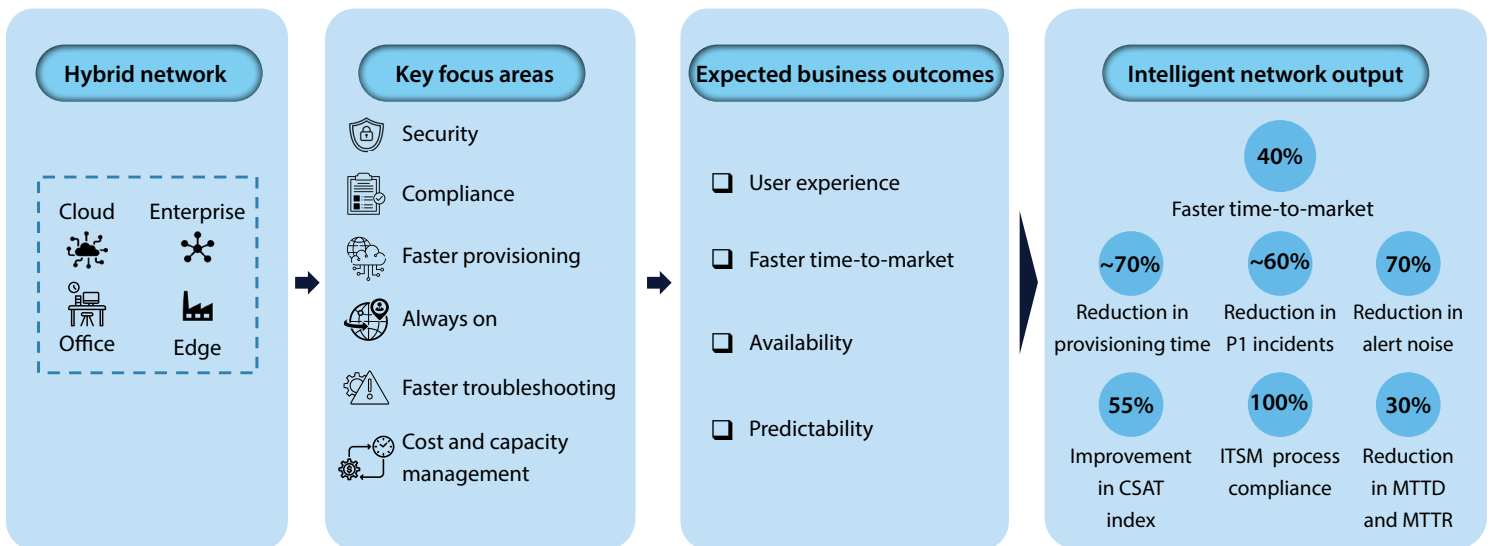
Network automation is proven to reduce the cost of delivery, enhance user experience, ensure error-free deployment, and execute complex tasks through multiple-tool integration. These benefits pave the way for AI-based operations, driving organizations to adopt and accelerate the automation roadmap.



## Infosys Intelligent Network Platform

To address market requirements and to incorporate automation as an integral part of Infosys network offerings, we have developed **Infosys Intelligent Network Platform**, an **Infosys Cobalt** offering. The platform delivers end-to-end network automation using open-source industry standard programming tools and interfaces. With the capability to integrate with ITSM tools, monitoring, and management solutions, and SDN consoles, Infosys Intelligent Network Platform delivers a plethora of network automation functionalities.

Infosys Intelligent Network Platform accelerates the speed of execution of end-to-end network lifecycle activities. These include discovery, planning, configuration, orchestration, troubleshooting, compliance, and operational visibility.

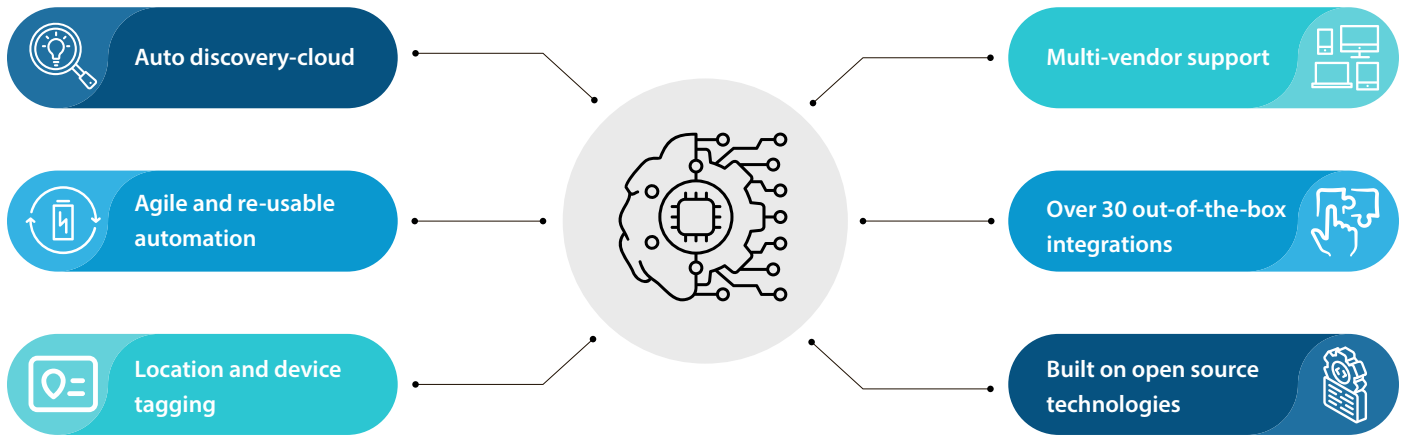


*\*The numbers presented above are estimates based on successful deployments for multiple clients. Since network environments can vary greatly in complexity, your actual results may differ.*

## Key Features and Modules

The Infosys Intelligent Network Platform provides several features that help enterprises automate their network-related activities.

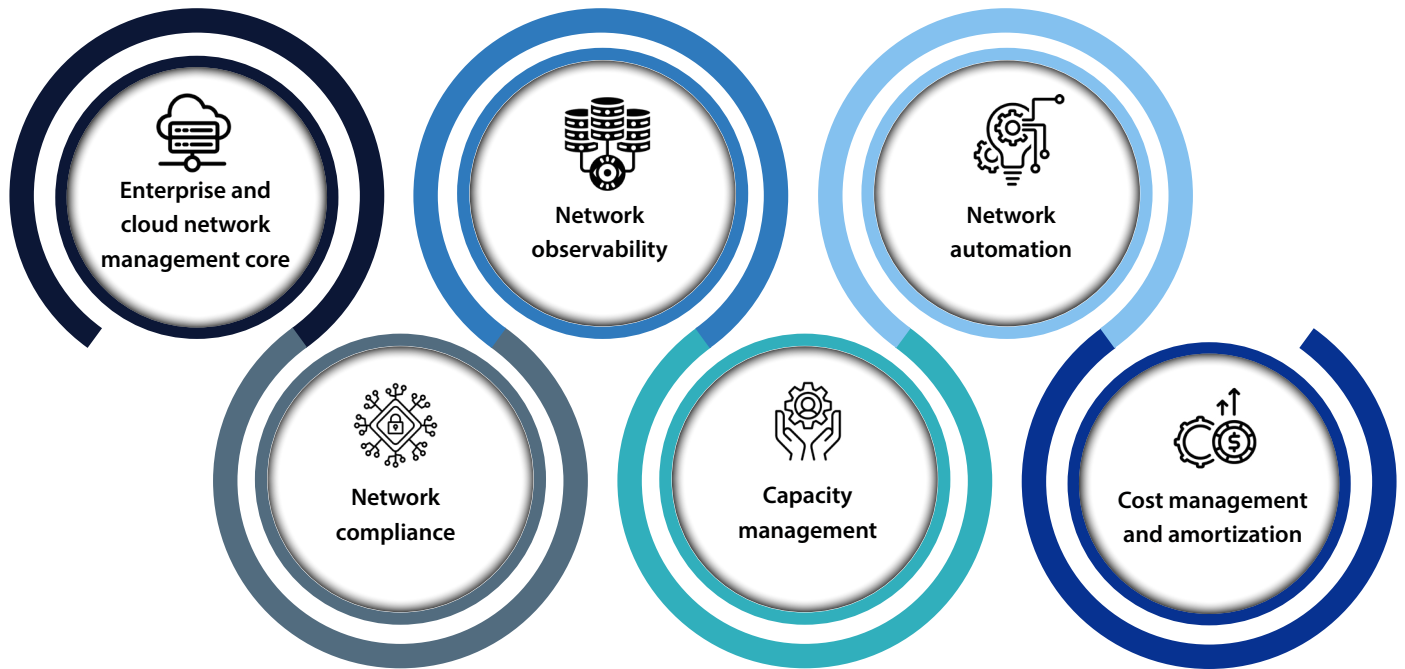
- Pre-built network automation use cases
- Financial module for business unit-wise view of the infrastructure cost
- Automation workflow dashboard serving as a single pane of glass for all network automation tasks
- Discovery of existing infrastructure including physical details of network facilities such as location, site, and rack details
- Open source-based platform for use without vendor lock-in
- Custom network automation solutions for specific requirements





## Key Functional Modules

Infosys Intelligent Network Platform has several key modules designed thoughtfully to cater to specific tasks in the end-to-end network automation lifecycle. Each module is designed to achieve optimal business outcomes while keeping security and governance at the center. The modules are supported by fine-grained role-based access that provides both regional and site-wise control.

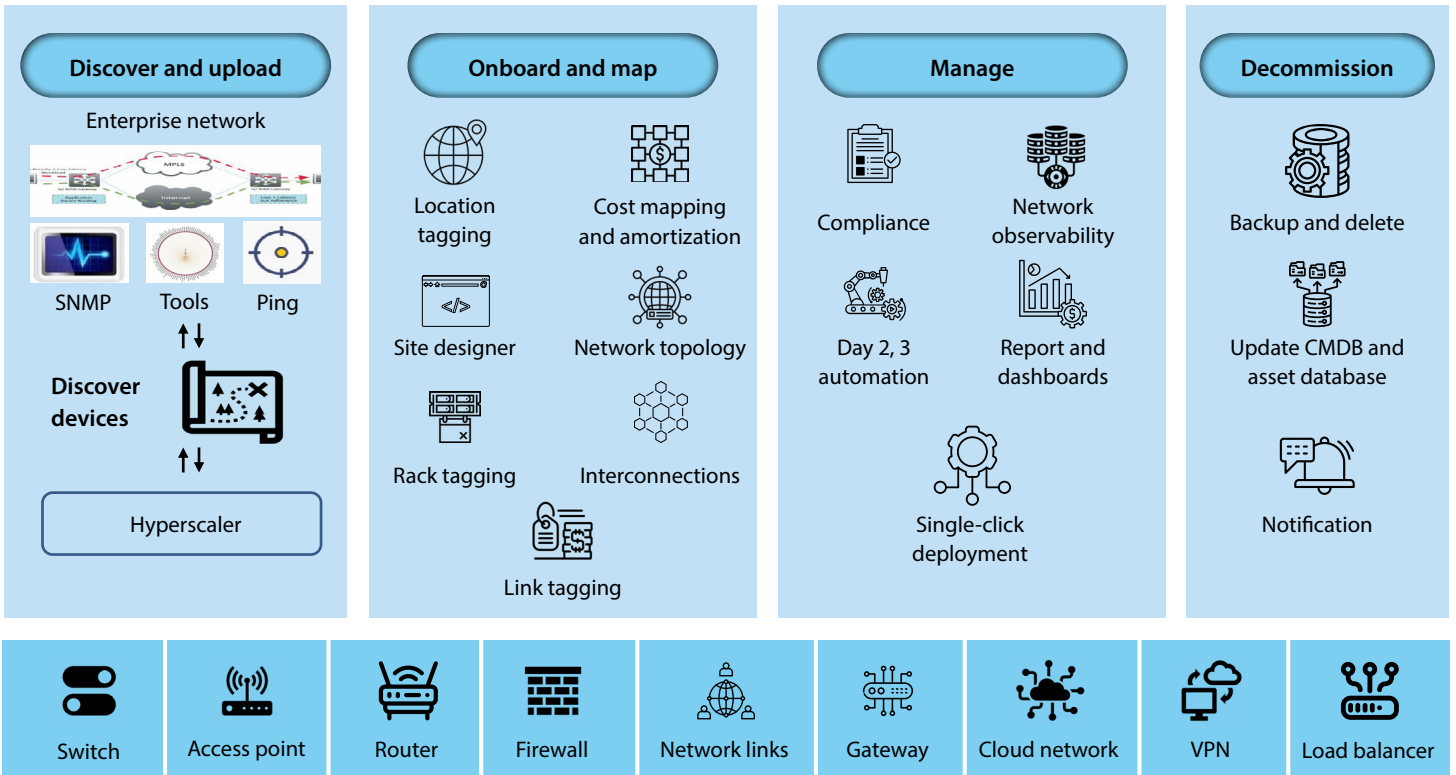


The platform supports all activities from provisioning to troubleshooting while focusing on reduction in implementation time and ensuring zero human errors. The capabilities come together under the compliance dashboard to provide clear visibility into existing patching gaps and help create a solution that is thoroughly “secure by design.”



# Implementation Phases

Infosys Intelligent Network Platform is designed to help enterprises adopt network automation in a phased manner. These phases are described below in brief.





## Discover

Infosys Intelligent Network Platform can integrate with various auto-discovery tools in the business environment. This helps facilitate discovery of network devices per location and onboard them to the platform for further use. The platform has the ability to discover cloud network services/resources.

## Onboard

Discovered network devices are mapped to their physical characteristics such as location, site, and distribution frame/network connectivity rack details. Business unit-based tagging can be done to provide a financial view of the devices per business unit (BU). This helps the central IT department to understand infrastructure usage by BU. Infosys Intelligent Network Platform provides physical network connectivity topology maps for on-premises and cloud infrastructure. Furthermore, the platform inherits the capability to integrate with industry standard tools through API. Data exchange is performed with other platforms and tools such as ITSM tools, monitoring, and performance management tools, and OEM-provided SDN management tools.

## Manage

The platform supports an automation dashboard that provides a single pane of glass view for network automation execution. From process flow creation to the final execution of automation routines, it monitors various stages of automation including script creation, validation, testing, approval of scripts, and execution. The dashboard provides the status of automation use cases executed or awaiting execution. Version control of automation scripts along with script usage information and updates help in controlled use of automation and error-free execution.

## Decommission

Infosys Intelligent Network Platform streamlines the decommissioning process for a secure and efficient removal of devices from the network. It's proactive notification system alerts IT teams when a device reaches its end-of-life or warranty expiration, prompting them to initiate the decommissioning process proactively. This prevents outdated equipment from remaining on the network potentially causing security vulnerabilities or performance issues. Upon initiation, auto updates to the existing configuration management database (CMDB) and asset database are made.





## Key Benefits

Network automation using Infosys Intelligent Network Platform provides tangible benefits to enterprises:

**40% faster time-to-market** enabling rapid deployment and early market penetration

**~70% reduction in provisioning** to help streamline the deployment process, minimizing manual intervention and significantly reducing associated costs

**~60% reduction in Priority 1 (P1) incidents**, resulting in less downtime and more stable operations for users

**30% reduction in mean time to discover (MTTD) and mean time to recovery (MTTR)** allowing users to resolve issues faster and minimize system downtime

Network operations and their automation are complex in nature and require robust pre-validation and post-validation processes specifically tailored for each network environment. Infosys Intelligent Network Platform enables network engineers to efficiently execute vital tasks such as provisioning, request fulfillment for change or service requests, network administrative tasks, configuration management, and inventory updates across networks. The platform has several core modules designed to help enterprises through various phases of their network automation from discovery to management. All aspects of an organization's network automation are completely customizable while ensuring security and governance at the core.

Leveraging Infosys Intelligent Network Platform for end-to-end network automation can help businesses realize several benefits such as superior level of predictability and availability, faster time to market, and enhanced user experience.



Infosys Cobalt is a set of services, solutions and platforms for enterprises to accelerate their cloud journey. It offers over 35,000 cloud assets, over 300 industry cloud solution blueprints and a thriving community of cloud business and technology practitioners to drive increased business value. With Infosys Cobalt, regulatory and security compliance, along with technical and financial governance come baked into every solution delivered.

For more information, contact [askus@infosys.com](mailto:askus@infosys.com)



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