NETWORK AUTOMATION

AUTOMATING WORKFLOWS FROM DESIGN TO IMPLEMENTATION

Investment in IT infrastructure is at an all-time high with organisations driving to achieve faster delivery, improved quality and lower cost.

However, often the full benefit of this investment isn't fully realised. Despite the enhanced features and capabilities of the IT systems, the underlying workflow is frequently not optimised – potentially increasing staff overheads and failing to deliver the expected benefits.

At **Net Reply,** we help SIMPLIFY, AUTOMATE & INTEGRATE daily routines into harmonised workflows to optimise the return on IT investment, thereby:

- Reducing network design and delivery complexity
- Optimising and streamlining workflow processes
- Accelerating speed to deploy new network services
- Introducing self-service capabilities

Understanding the process from design to implementation

Engagement begins with client workshops and consultant engagement to define and review the process from design to implementation, including requirements capture, review of manual processes, identification of bottlenecks, applications usage, system interfaces and compliance reporting requirements. This bottom up analysis of the challenges and issues enables standardisation and streamlining of the workflow and definition of the automation requirements.

Exploiting the capabilities of Reply

With unrivalled expertise in **networks, application development, agile delivery and data analytics** across multiple industry sectors, Reply possesses the skills and capabilities to deliver automation, embracing technology innovation and applying industry best practice. We adopt a multi-vendor, open systems architecture and employ significant capabilities to improve User Interface / Experience.

Leveraging the benefit of AI and machine leaning

With unprecedented access to information / data, our automation applications exploit the benefits of AI and machine learning to improve decision making. We connect with all necessary data sources in the network (often containing conflicting / erroneous data) to correlate and clean data to create the definitive 'single source of truth'.

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AUTOMATION USE CASES

The following use cases describe the typical automation opportunities in the design and delivery process. Workflow optimisation, combined with enhanced user access to credible data, enables better design and delivery decisions.

Visibility & Management

Simplify user access / visibilty

Client portal integration and dashboard console

Service assurance SLA / KPI / Reporting

Workflow automation

DESIGN	**VALIDATION**	**APPROVALS**	**OPERATIONS**	**SECURITY**
Automate design generation and availability	Automate validation of routing checks	Automate approval workflows for user requests	Automate repetitive routines/procedures and tasks	Automate security compliance checks, vulnerability and threat evaluation

AUTOMATION BENEFITS

When delivering network changes, a wide array of data (such as security zoning, routing parameters, firewall, IP addressing etc) needs to be collected, validated and approved before implementation in the network. As networks grow in size, this becomes a cumbersome and time consuming task which is prone to errors since tens of thousands of table entries needs to be referenced.

Network workflow automation results in significant improvements:

- Automation of design validation typically improves delivery times by 80%

- Reduces labour cost, or more importantly frees up expert resources for other value add activities

- Reduces risk of outages and service disruption

- Enhances Quality through standardisation, minimising human-error and ensuring alignment to Network policies

WHY NET REPLY?

Our Network Automation services help you to **SIMPLIFY, AUTOMATE & INTEGRATE** daily routines into harmonised, automated workflows. We deliver customised solutions, based on your individual business requirements.

SCALABLE SOLUTIONS

BEST PRACTICE DESIGN

ONSITE, OFFSITE AND VIRTUAL DEPLOYMENT OPTIONS

BIG DATA, MACHINE LEARNING ALGORITHMS AND AI

NETWORK DESIGN AND SECURITY EXPERTISE

REPLY NETWORK EXPERTISE

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