

## Amdocs Network Division

# Amdocs Zero Touch Network Automation

Improving network operations by using network data insights and automation

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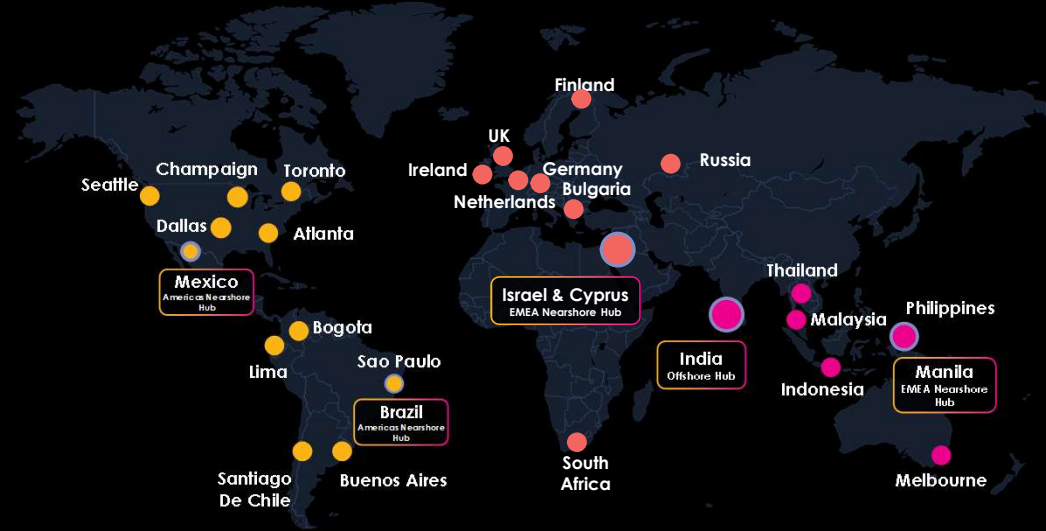
Amdocs Network Solutions

# Serving Those Who Shape the Future Network

Operating, Transforming and Modernizing Networks for 20+ years

## Americas

- United States
- Brazil
- Canada
- Other Countries



## Amdocs Networks by Numbers

**1 Billion+**  
Tech Investment

**2000+**  
Network Experts

**100+**  
CSP Clients

**24 X 7**  
Support

**6**  
Nearshore Hubs

**300k +**  
Sites Delivered

Special expertise to improve Operations for multi-national, Galaxy Service Providers

## EMEA

- United Kingdom
- Germany
- Other Countries



## APAC

- Australia
- China
- Malaysia
- Taiwan
- Other Countries



# Industry Trends #1 – Network Automation and Network Analytics

## Drivers



### Network Complexity

With the introduction of 5G, Beyond 5G, Edge, Cloud, SDN the traditional network is becoming complex to operate and manage



### Reduce OpEx

Through the introduction of automation reduction of human intervention for operational processes



### New Services ; Reduced TTM

Ability to deploy and manage new services based on NFV, MEC and Network Slicing quickly



### Improve Customer Experience

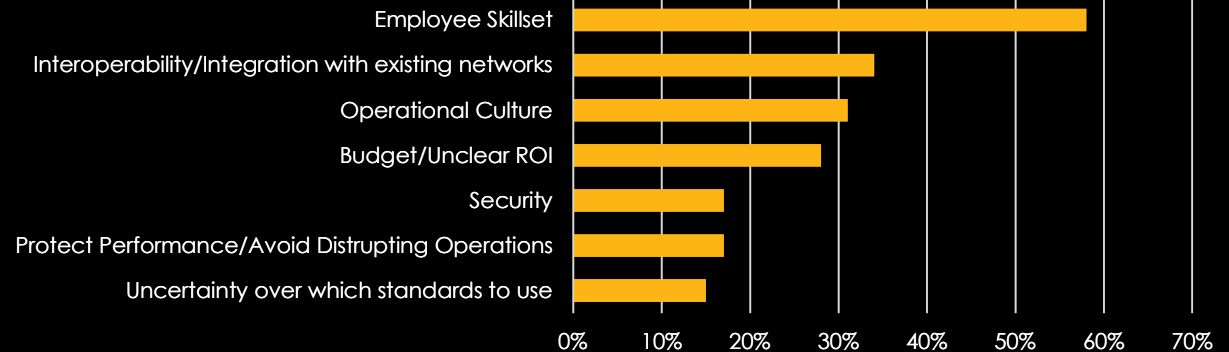
QoS of different services deployed for a customer across network ecosystem



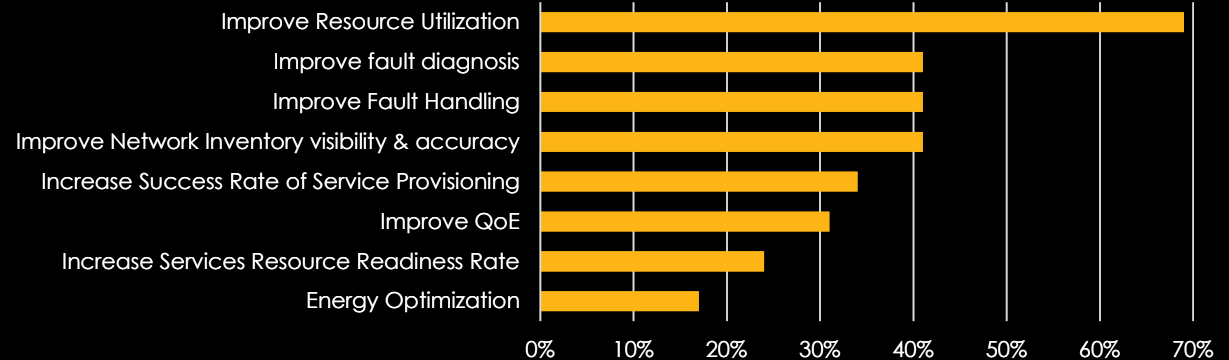
### Simplified Operations

Single operations group with visibility across services and networks

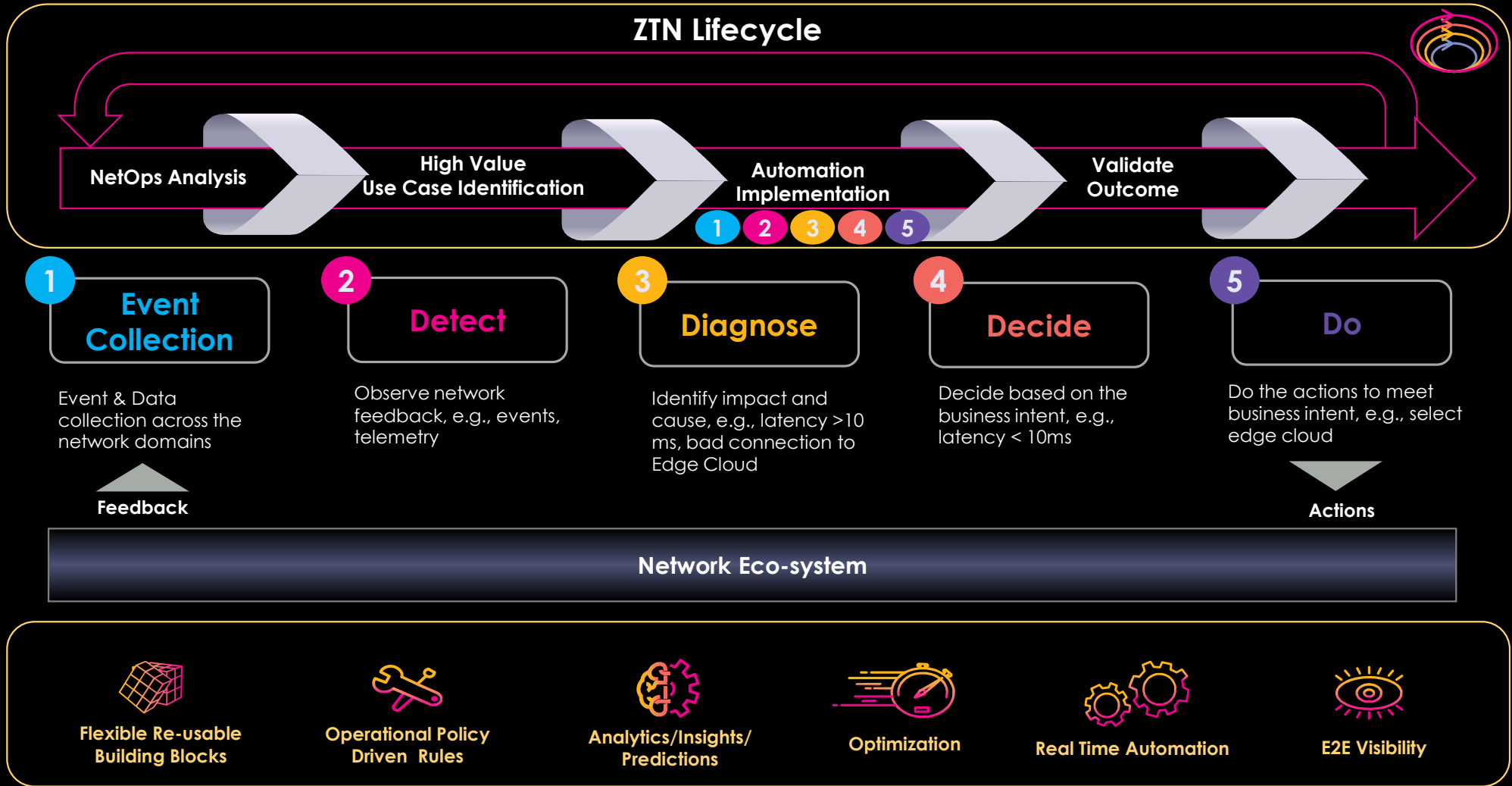
## Challenges



## Top Operational Outcomes Expected

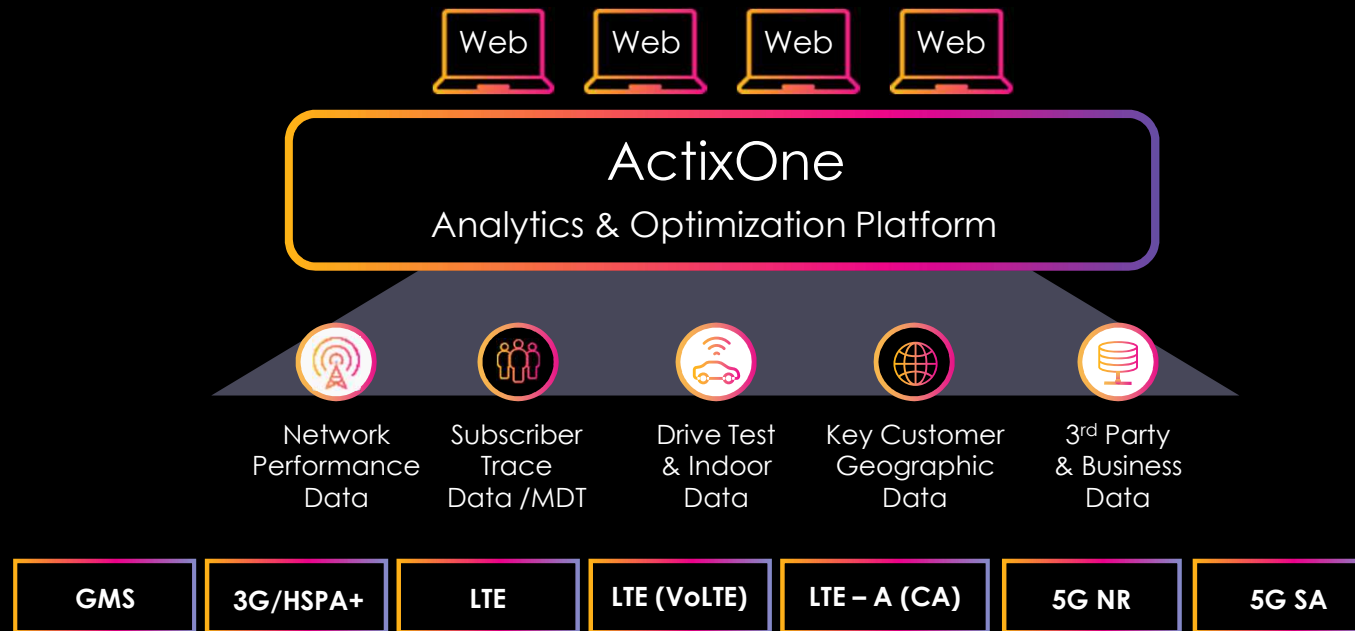


# Amdocs Approach to ZTN



# Network Optimization Suite - ActixOne

ActixOne is Enterprise analytics driven scalable platform providing a unified workspace for all network's performance analysis and optimization activities. It supports key network datasources and addresses various of use cases with focused SW modules. Centralized platform. Multi-vendor & Multi-technology.



# Generative AI in the NW Domain

## System/Infra Metrics

- Alerts self-healing (SRE) flow. (a.i. manual tasks in the flow)
- Send Requests to GenAI to get the steps required to fix the systems related issues

1

## Best NFs Configuration

- Configuration, best options for the better performance
- vRAN/ORAN NFx
- 5G Core NFs

2

## Service Insights

- Define/Set a set of Service metrics for monitoring service SLAs
- Request for Deployment/Auto-scaling best services config to improve SLA

3

## Applications User Experience & Edge Placement

- Get a best NFx placement (e.g. Edge) to matched application KPI requirements for latency, speed, QoS)

4

## Network queries

- Utilize GenAI driven federation layer to generate databases queries to get network status information (e.g. network elements, devices, sites, services, etc.)

5

## Problem Resolution

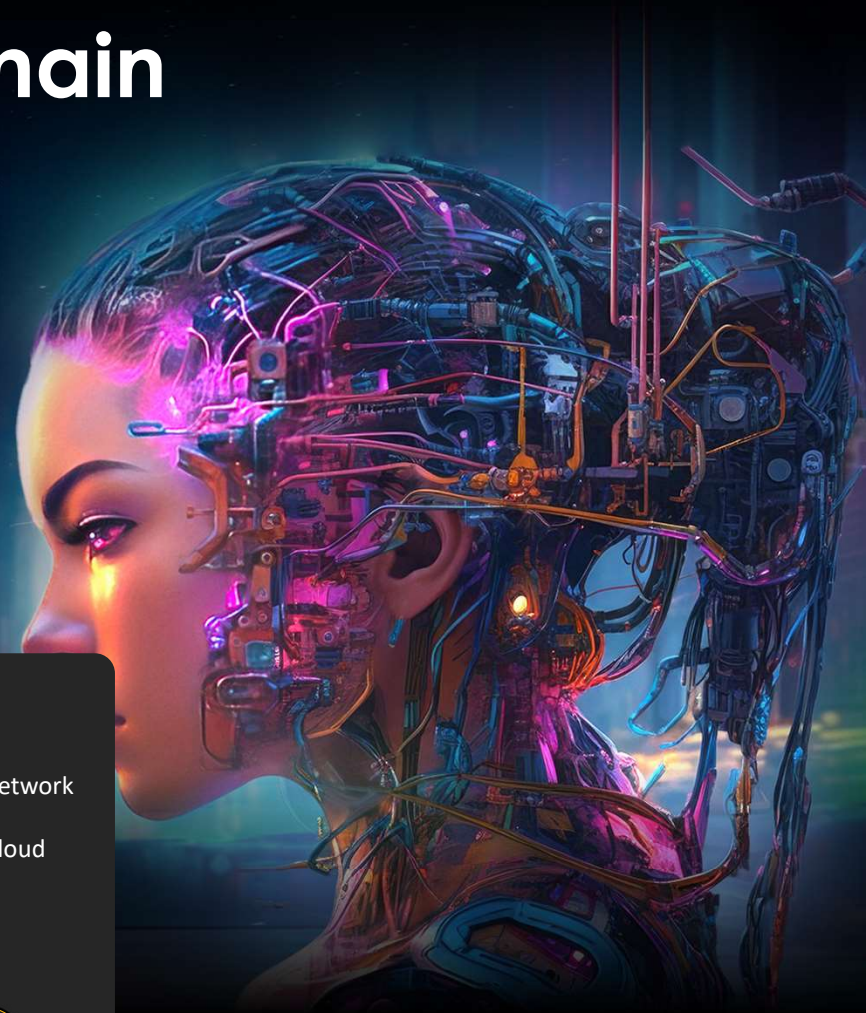
- Provide recommendations for problem resolution (e.g. out of disk space, CPU utilization high, alerts from network, missed KPIs, etc.)

6

## Network Cloud conversion

- Assistance for conversion of Network functional and application to Cloud

7



# Amdocs Network Platform for Operations (NPO)

Powered by atomIQ

**NetOps Single Pane of Glass**

**Network Functions KPIs**

**Monitoring**

NF Drill Down - Analytics & Root Cause

**AI, Anomaly Detection, GenAI**

Anomaly Event Details & Self Healing

**Auto Correlation**

Auto Ticket Resolution

**Ticketing & Automation**

Anomaly Generation

**Self-Healing**

AI Ops - Self Healing

**SRE Console**

SRE - Site Reliability Engineering

**CI/CT/CD Pipeline**

**No click ticket resolution**

**Automation**

- Auto ticket resolution
- Self Service,
- Automation Packages
- OS Patching Automation

**Resiliency**

- Preemptive Monitoring
- Self Healing
- Utilizing AI/ML to minimize downtime

**AIOps**

- Single pane of glass
- Anomaly Detection
- Event grouping
- Log mining
- Digital Operation
- Monitoring self-service

**Cloud**

- Hybrid cloud Management
- Platform - utilizing Amdocs and Cloud native tools
- Landing Zone
- Infra as a code
- Cloud Security

**ITSM**

- Ticket management
- Problem management
- Change management
- Knowledge base
- Data Analytics (BI reports and RCA)

**FinOps**

- Realtime cost anomaly
- Budget management
- Business correlation

# Summary – What Amdocs Brings?



## Zero Touch AI Operations

- Technology-driven operations utilizing AI and Machine Learning
- Automation built in and extreme focus on automating process and resolutions
- Enhanced customer experience



## End-to-end accountability

- Product and services-led company, managed transformation capabilities
- Service-based engagement, commitment to measurable KPIs
- Central governance & control



## Proven Experience

- Executing telecom's largest managed services agreements and operation projects
- Industry recognition as 'Always Delivers' DNA
- Leveraged MSFT and Amdocs and knowledge and innovations



A night cityscape with digital data lines. The background shows a city skyline at night with numerous skyscrapers illuminated. Overlaid on the city are numerous vertical lines of light in shades of blue, purple, and pink, representing data or network connections. The lines vary in height and intensity, creating a sense of depth and movement.

# Thank You

Contact Inquires: [NetworkSolutionInquire@amdocs.com](mailto:NetworkSolutionInquire@amdocs.com)

Amdocs Network Solutions