

# Make 5G smarter through the whole lifecycle

An Infovista solutions overview

Infovista, your trusted 5G partner.

# Introduction

Technologies like 5G present you with a seemingly unsolvable conundrum: how to focus on deploying and investing in the future, while continually improving operations for the networks that your customers rely on today.

That's where Infovista can help. By simplifying the whole lifecycle from planning, testing, operation and monetizing, you can focus on deploying the future, faster.

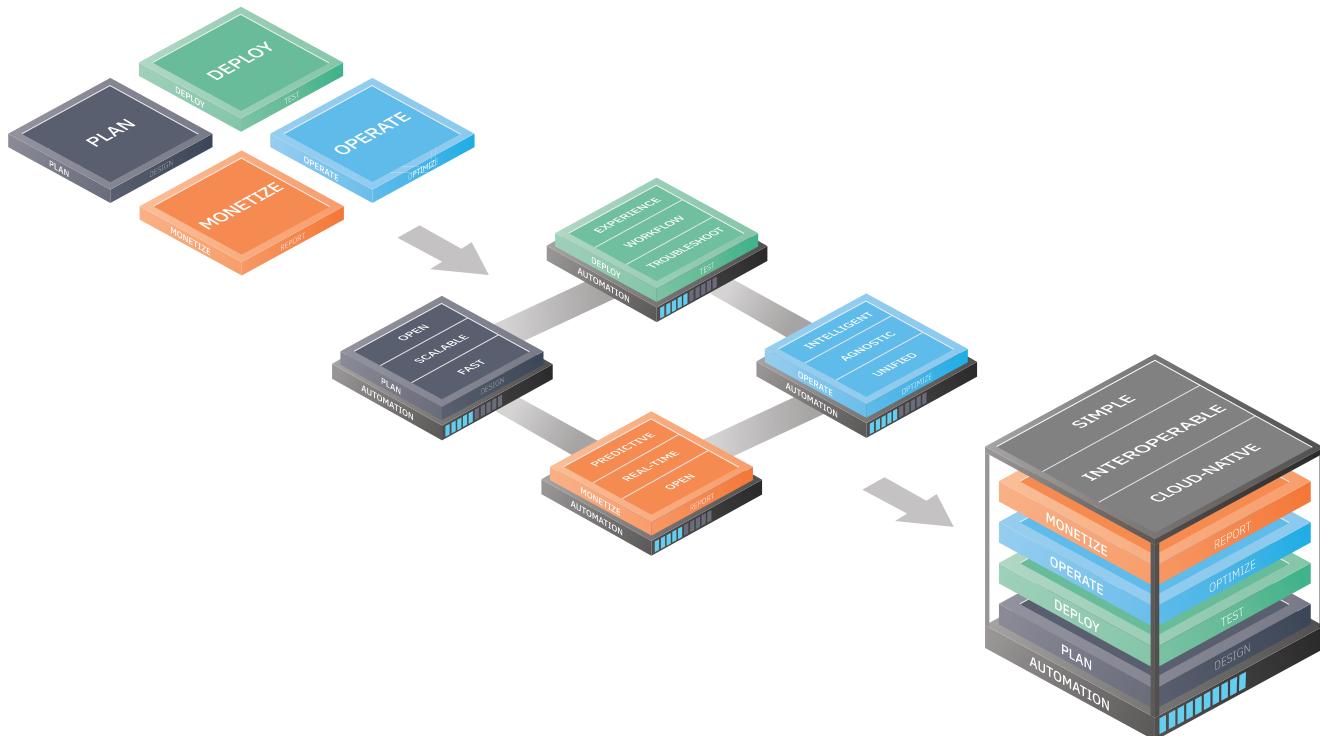
## Network lifecycle automation

Networks traffic loads are at record highs. At the same time, operators are moving into more complex and dynamic cloud environments. And everyone is preparing for 5G.

In parallel, the introduction of network slicing brings the need to handle new enterprise services faster, at scale and with greater coordination to continuously fulfil SLA requirements and deliver excellent customer experience.

But how can you focus on deploying and investing in the 5G future – with new services such as network slicing, ultra-low latency, industry 4.0 – while continually improving operations for 4G, the technology on which your new customers still depend?

By automating the workflows and operations between and within the various phases of the end-to-end lifecycle, you can break out of this seemingly unsolvable quandary. Automating manual tasks associated with daily 3G and 4G operations allows you to focus on deploying your 5G future, faster.



# Network lifecycle automation – the Infovista way

Designed to drastically reduce complexity and improve productivity, Infovista's network lifecycle automation (NLA) technology brings automation to planning, deploying and operating 5G and legacy networks, lowering the costs of operating legacy networks and outages, while reducing time-to-market for 5G.

Infovista's network lifecycle automation fulfils our mission to make operators successful in their 5G, cloud and NFV/SDN journey. Offering a new generation of operational solutions where networks and services are managed efficiently throughout their lifecycle, we use analytics and automation as the main techniques for achieving better and faster processes while optimizing costs.

As we focus on the planning, deployment, operation and monetization phases, Infovista can help you automate your network through the whole lifecycle of 5G.

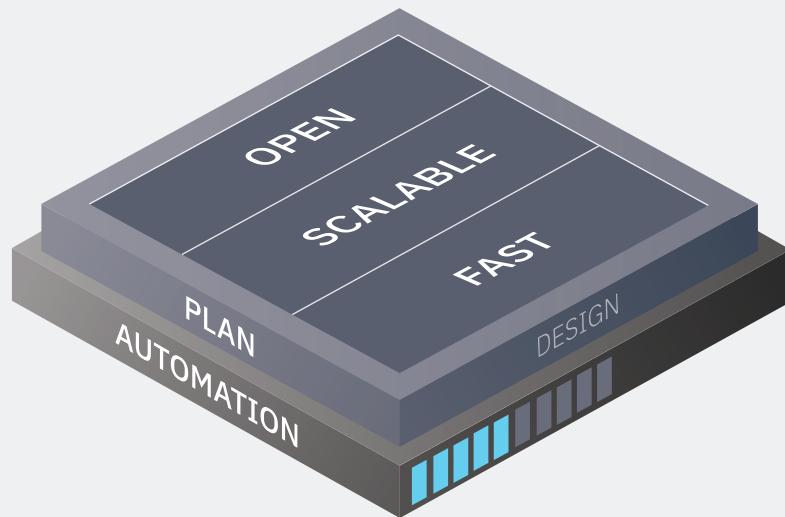
## Plan – Optimize CAPEX. Act in hours not weeks.

During the network lifecycle, strategic decisions significantly impact on infrastructure investments and ROI. How do you make the right decisions in your 5G rollout plan, ones that don't waste time or risk investment in projects that won't pay off?

Whether you're deploying 5G features over existing 4G layers, acquiring new spectrum or addressing increased capacity demand, Infovista's automated planning solutions equip you to compare, report and reach cost-efficient RAN deployment decisions, faster.

- Leverage automation to model precise RAN deployment scenarios and make data-backed decisions for the highest 5G payoff
- Speed up planning decisions to reduce time-to-market, optimize site CAPEX and make confident RAN investments
- Solve RAN capacity limitations – new spectrum, new cells or tap legacy. Make the best choices with tools to predictively quantify and anticipate outcomes before you make critical decisions

Infovista's solutions for 5G network planning:  
**Planet, Planet Cloud and Geodata.**



**“ As we accelerate the rollout of 5G services in the country with new cities being covered, we want to ensure we deliver best-in-class experience in the locations of our customers and to better serve them. ”**

Abdulrahman Al-Mufadda | Chief Technology Officer | Zain

## Deploy – Verify 5G sites. 5x faster. 40% lower OPEX in 3 years of automation

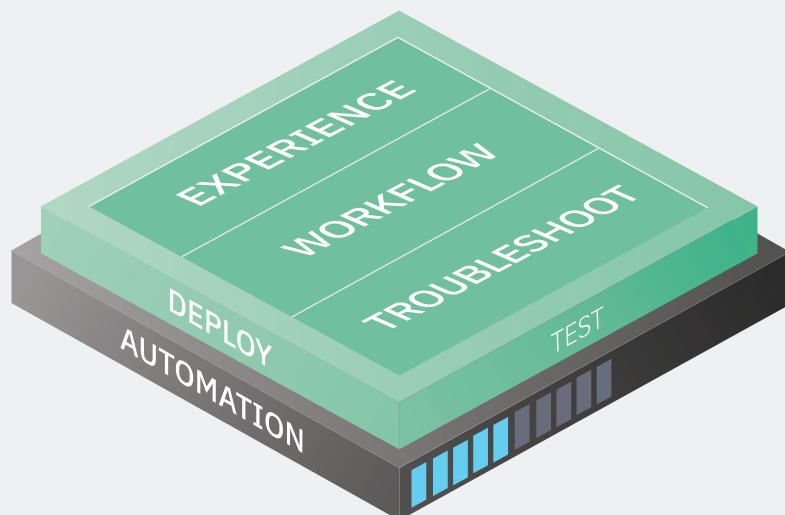
Deployment is when the metal hits the road; where planned investment is turned into instant business value, and everything must work correctly the first time. After being involved in deployment projects all around the world, we've learned from best practice to focus on the end-customer, not the technology.

Like all new technologies, 5G will affect services in different ways, so it's essential to closely monitor changes to customers' experiences, whether that's what voices sound like over the new tech, online

game performance or whether Teams still works. But it's equally important to ensure your legacy customers don't experience degradation either.

- Ensure premium customer experience at all stages of the 5G deployment
- Replace manual processes with best-in-class workflows
- Streamline 5G operations. Dedicate your teams to launching new services

Infovista's solutions for 5G testing: **TEMS™ family of tools.**



“ Infovista makes true automation across the network lifecycle simple. TEMS Paragon solutions mean drive testing substantially increases efficiency, literally overnight.

Hakan Ekmen | Chief Executive Officer | umlaut communications ”

## Operate – Eliminate 70% of manual processes. Focus on new 5G services.

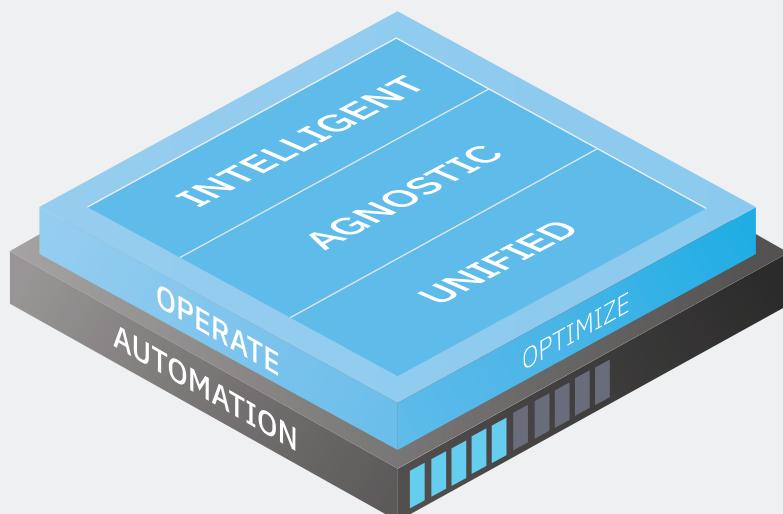
Once your network is ready, how can you drive OPEX savings and ensure 5G services are introduced successfully?

For your next generation of operations, certain capabilities are essential in your solution. Whether it's proactive identification of customers impacting network degradation problems, continuous prioritization of issues based on business impact,

or automation workflows for fast resolution turnaround, we've got you covered.

- Prioritize innovation and control OPEX by automating daily repetitive tasks
- Introduce new 5G business models with end-to-end SLA control
- Make smarter decisions with AI and machine learning insights

Infovista's solutions for operations: **Ativa™ suite for Automated Assurance and Operations**



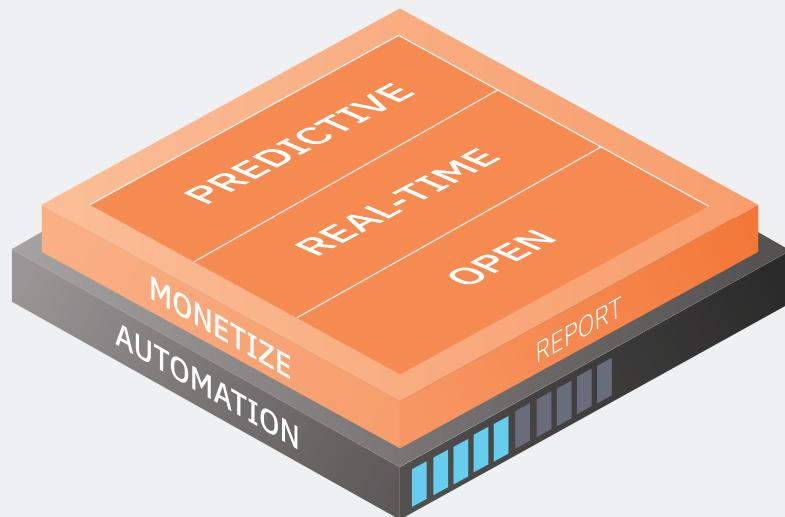
**VistaInsight Mobile provides unique versatile monitoring automation and drill-down capabilities into our complex multi-vendor and multi-technology infrastructure.**

E. Kiselev | Swap Project Director | Nokia

## Monetize – with use cases. Deploy the future, faster.

We offer our customers dedicated use cases supported by network lifecycle automation, across all product groups. This helps to simplify tasks and get the desired information and KPIs in a single pane of glass visibility

With the use cases, we are combining different products into advanced solutions, with cross-domain correlated data from different network domains (UE, RAN, transport, core) and layers (infrastructure, network, applications, services, subscribers and devices).



This allows us to address multiple areas that are critical to your ability to monetize 5G:

### End-to-end SLA automation

We offer a single, end-to-end network infrastructure solution for all service-level agreement (SLA) management tasks, flexible service modelling, multi-tenancy, report access control and integration with billing for enterprise services charging as well as active SLA assurance, with periodic slice/service quality testing and trigger healing, optimization and planning actions.

### Streamlining network inventory and configuration

Network lifecycle automation twin technology consolidates network configuration activities into a single, automated workflow that brings discovery, design standardization, homogeneity,

guaranteed connectivity and scalable compliance management of complicated radio, transport, core and IT networks. Agnostic, standardized and scalable mobile networks configuration enables high homogeneous service quality while paving the way for the deployment of new, cloud-based and microservices focused networks.

### Automated RAN diagnosis and optimization

5G brings unprecedented complexity to mobile network deployment and management but does nothing to relieve the burden of maintaining the quality of service of existing 2G, 3G and 4G network layers. Automation of RAN diagnosis and optimization processes expedites the daily troubleshooting of legacy technologies and frees up skilled engineers to focus on the new challenges of 5G.

## Automated Service Assurance & Operations

With our network and service management solution, you can unify your operations for radio, x-haul, core and cloud, including not only PM, FM and Inventory functions, but also customer experience and application monitoring, for true end-to-end service quality assurance.

### Infovista's supported 5G use cases:

- **Automated Single Site Verification (SSV) –** Automated site acceptance for faster 5G roll-outs
- **Precision Drive Testing (PDT) –** Enrich and automate Drive Testing with AI/ML to increase speed and accuracy of 5G testing process
- **Smart CAPEX –** Execute 5G roll-out and expansion with high precision forecasting to optimize and accelerate ROI of CAPEX investments
- **360° 5G Slicing Assurance –** Ubiquitous visibility and proactive control of 5G slices for 5G and IoT devices across RAN, and Core to monetize network slicing at scale and improve SLA offerings
- **360° Voice Monitoring –** Satisfying the needs for holistic E2E visibility and control of 5G VoIP services
- **5G Core Monitoring and Analytics –** Quickly leverage advanced 5G Standalone Core network capabilities with E2E view of 5G customer experience
- **User Plane Applications Analytics –** Get 5G user plane applications insights to monitor subscriber traffic usage, identify trends and patterns for superior QoE to customers
- **Customer and Device Monitoring –** Gain deep insights into content usage, preferences and trends with unique intelligence down to per-subscriber, per-device, per-service level to improve churn rate, ARPU growth and network ROI

### Why Infovista for 5G networks, applications, services, devices and subscriber experience?

- **Strong 5G SLA monitoring** and ready for B2X models: flexible service modeling, multi-tenancy, report access control and integration with billing for enterprise services charging
- **Multi-level correlation for fast troubleshooting:** mapping both physical and logical resources to services, functions and geographies for service-oriented navigation and customer impact analysis
- **Integrated offering covering 5G planning,** network operations, testing and optimization activities that can automate tasks, flows, analytics and decisions across network lifecycle activities while enabling the cloud-native OSS evolution
- **Cloud-native platform:** Containerized application services offering an integrated assurance stack such as automated network discovery and inventory, performance and fault management functions, data import and export with open APIs
- **Performance at scale:** supporting billions of 5G transactions per day used to manage networks including a top-three CE provider in the US, the largest wireless operator's backhaul network and the largest private network in the world

## About Infovista

Infovista is the global leader in network lifecycle automation (NLA) for the next-gen networks era. With its unique NLA approach, Infovista allows communications service providers (CSPs) and enterprises to improve their network performance and customer experience, optimize their productivity, and reduce their costs, while maximizing return on their investments. Spanning the entire network lifecycle, Infovista's products and solutions leverage an open, integrated, cloud-native portfolio that automates tasks, flows, analytics, and decisions to the greatest extent possible. More than 1,500 customers, including 400 mobile network operators, around the world rely on Infovista to plan, design, deploy, test, operate, support, optimize, evolve, report on and monetize their networks.

## We Know 5G.

### CUSTOMERS

**550+**

### COUNTRIES

**112+**

### USERS

**11K+**



For more information please visit [www.infovista.com](http://www.infovista.com)  
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