

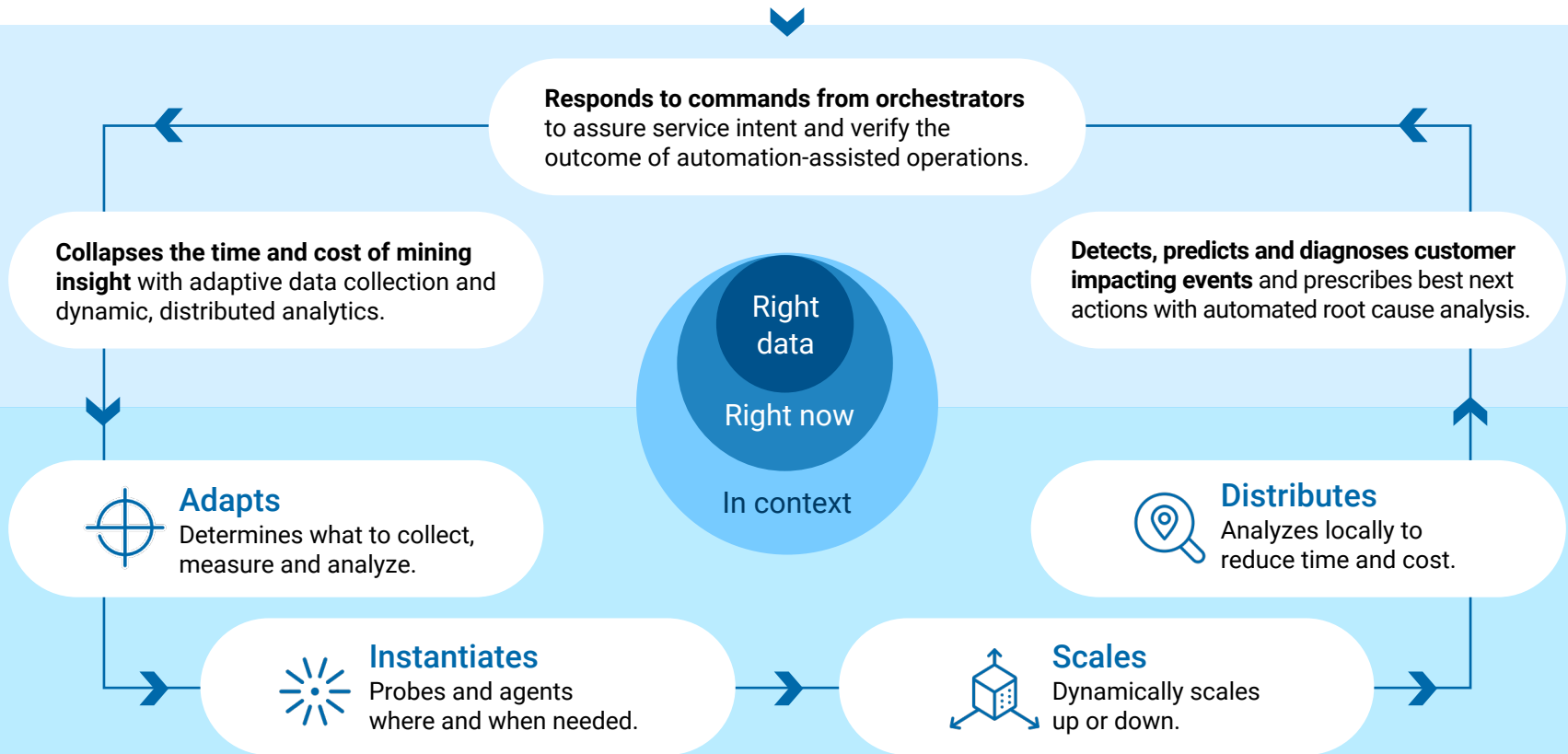
Nova adaptive service assurance

Right data, right time, in context



Adaptive service assurance

EXFO's Nova adaptive service assurance platform uses AI-driven automation and analytics to shatter big-data overhead and **reveal the small data that matters in the moment** to enable real-time operations and network automation.



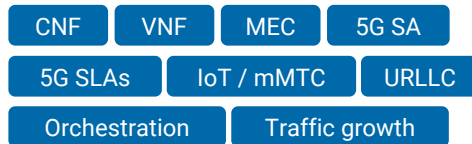
Extracts context, insight and value from existing systems by openly ingesting data from service assurance, B/OSS, network functions and more.

Service assurance needs to adapt

Existing tools struggle to keep up in a world of:

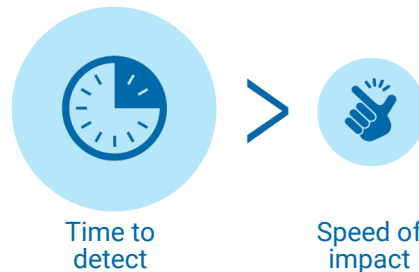
Operational complexity

Meeting customer expectations is getting harder. Compounding factors:

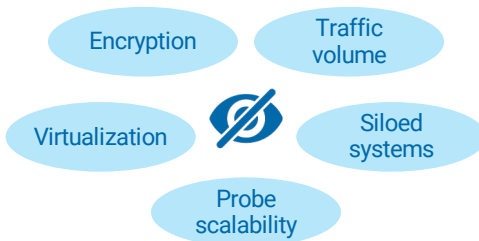


Silent suffering

Degradations define customer experience much more than outages. 90% go unnoticed².



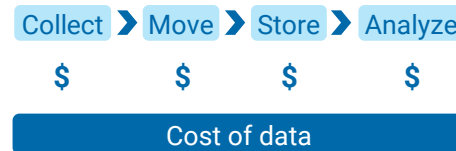
Diminishing visibility



80% of traffic will be invisible to traditional service assurance systems by 2024¹.

Big data bills

Collecting and analyzing everything is expensive and slow.



Some cloud bills for service assurance cost more than the solutions themselves.

125 Gbit/s³

per 5G probe

100's

of probes required to monitor Tier-1 networks

36,000,000 gigabits to analyze per hour

5G raises the bar

Orchestration, automation, CEX and 5G need precise, split-second insight, in context.

Old ways don't work

Assurance is now a network function

It needs to be scalable, resilient and integrated like the ones it monitors.



A new approach is needed to close the loop

1. EXFO sales engagements with Tier-1 U.S. operators, 2020

2. Heavy Reading customer survey 2019, EXFO customer data and EXFO advisory board input

3. Estimates provided are based on 5G network probing requirements provided by leading Tier-1 North American operators

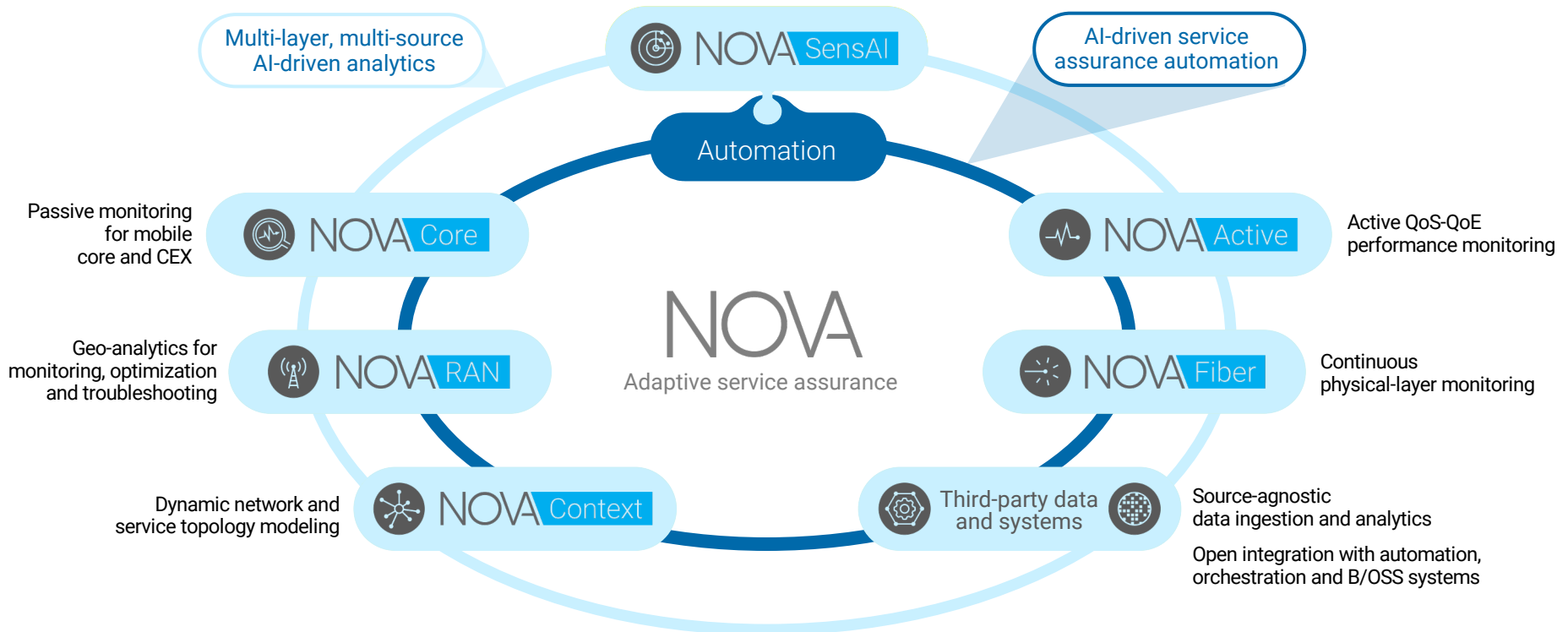
NOVA adaptive service assurance platform

[Learn more](#) 

Nova adaptive service assurance uniquely delivers contextual insights that relate service quality and customer experience to infrastructure performance across all layers and domains—fiber, core, cloud, RAN and transport networks.

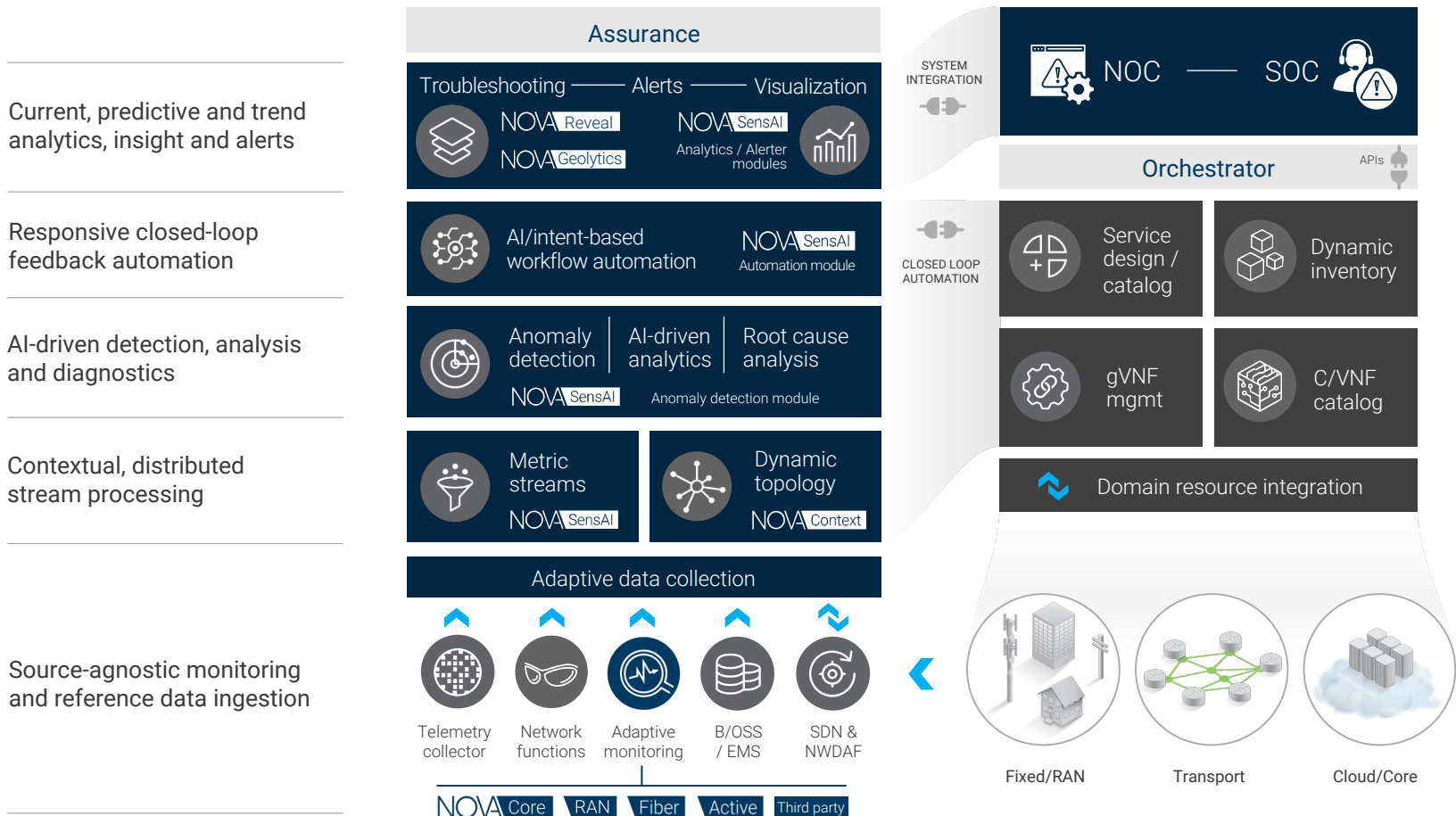
Nova SensAI's modular analytics and automation platform integrates feeds from one or more monitoring domains. Nova platform components and third-party systems integrate to assure multi-vendor networks, services, applications and infrastructure.

Platform components



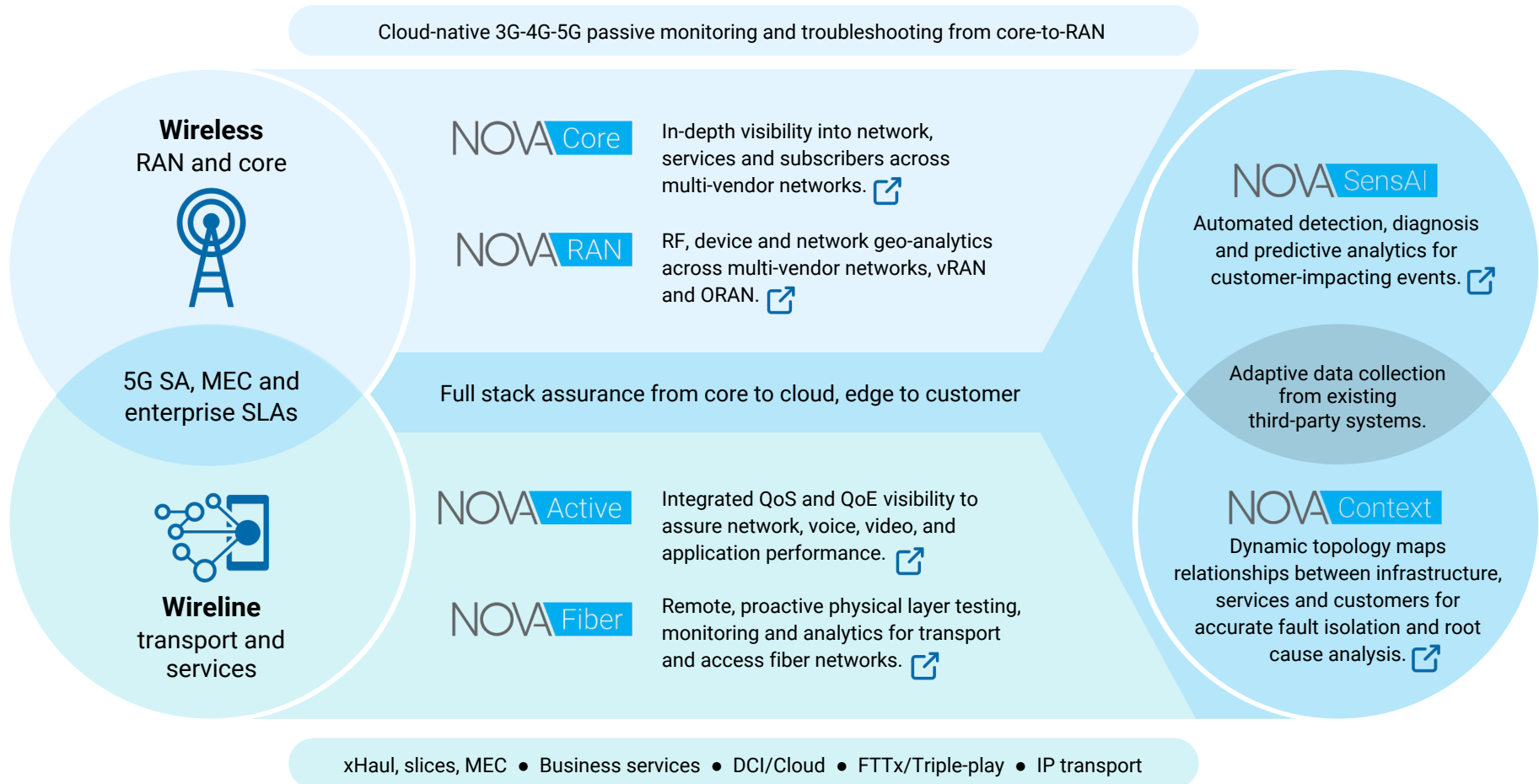
NOVA adaptive service assurance for orchestrated, automated networks

Cloud-native networks require close collaboration between man and machine. Because every automation journey is unique, the Nova platform is modular. Add components selectively to build an open, multi-vendor orchestrated network, incrementally.



NOVA adaptive service assurance

Platform coverage









NOVA adaptive service assurance

Solution coverage

Service providers use the Nova platform to overcome operational challenges, advance automated cloud-native networks, accelerate new revenue and deliver a differentiated customer experience.

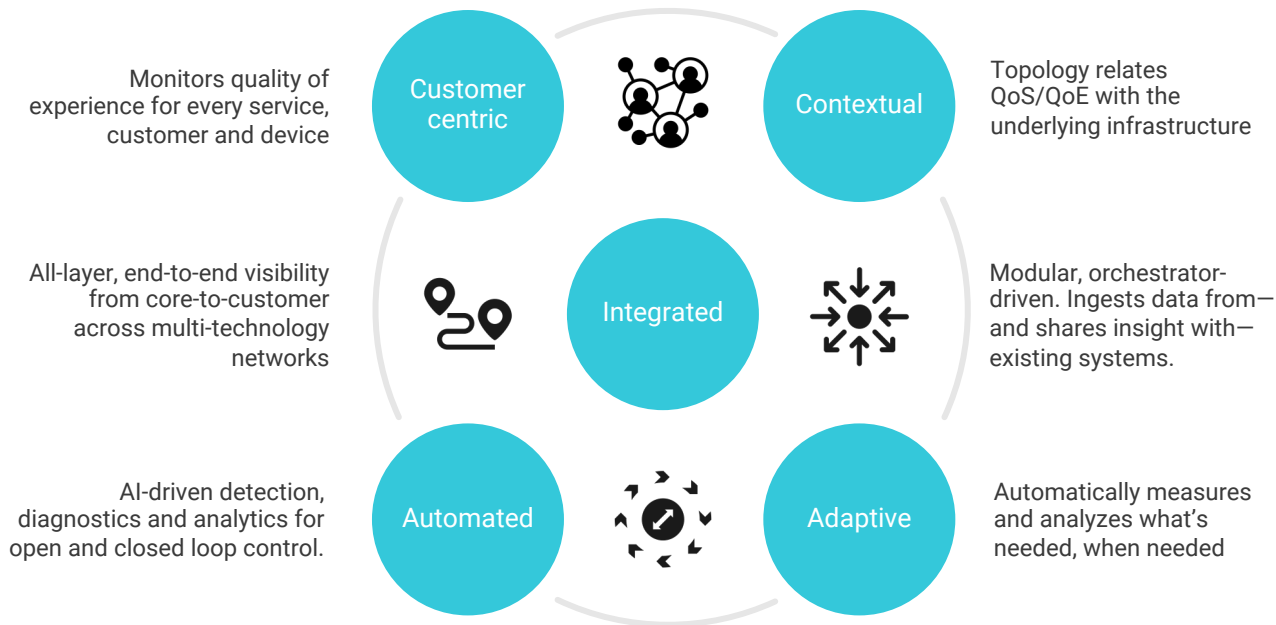
Modular solution components integrate with existing systems to provide real-time, prescriptive insight that breaks down siloes to get things done—simply and efficiently.

NOVA platform		Solutions and components*		 SensAI	 Core	 RAN	 Active	 Fiber	 Context
Network performance	Assure and optimize networks to enhance customer experience with an integrated view of network and service performance.			●			●	●	●
Service quality	Ensure every user and device gets the experience they need with an integrated view of application, network and infrastructure performance.			●	●	●	●		●
5G and mobile	Accelerate the deployment of 5G. Monitor and optimize 3G/4G/5G networks and services from core to RAN to customer.			●	●	●			
Automated assurance	Adaptive, automated insight for orchestrated networks with fast AI-driven problem detection and diagnostics for closed-loop control.			●	●	●	●	●	●
Fiber monitoring	Deploy, optimize, maintain fiber networks for 5G, enterprise and residential services with continuous physical layer monitoring and analytics.			●				●	
OTT QoE	Deliver exceptional quality of experience to differentiate and drive loyalty with network-aware OTT video and application monitoring.			●	●		●		

The Nova platform also assures the adoption of MEC, slices, private networks, and O-RAN.

NOVA adaptive service assurance

Unique viewpoint



Benefits

Detects, predicts and diagnoses customer impacting events

Extracts new value from existing systems

Simplifies operations and problem resolution

Unlocks network automation at scale

Accelerates market adoption and new revenue

260

Service assurance platforms deployed globally

5,000

Pro-services projects completed over 10 years

1st in growth

Fastest growing service assurance vendor in 2020¹



Proven expertise

Glossary

AI	artificial intelligence
AMPU	average margin per user
API	application programming interface
CNF	containerized network function
CSP	communications service providers
eMBB	enhanced mobile broadband communications
IoT	Internet of Things
LLC	low latency communications
LTE	long term evolution (4G)
M2M	machine to machine
MEC	mobile edge compute
ML	machine learning
mMTC	massive machine type communications

NFV	network function virtualization
NFVI	network function virtualization infrastructure
NPS	net promoter score
OTT	over the top
PNF	physical network function
QoE	quality of experience
QoS	quality of service
SLA	service level agreement
SP	service provider
UR	ultra reliable
VNF	virtualized network function
VoIP	Voice over IP
VoLTE	Voice or LTE



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