## Digital Transformation and 5G Standalone

Digital transformation is driving many of today's businesses. Telecommunications is no exception. The drive to transform arises from a desire to protect current revenues but, importantly to grow future revenues. Offering new digital services faster, more efficiently, with less operational cost, and with little or no human interaction is vital. Telecoms is making the push to digitalization, but to be digital services on the network must be digital too. Now 5G Standalone (5G SA) is here, with its fully-cloudified digital network, and the possibilities are boundless.
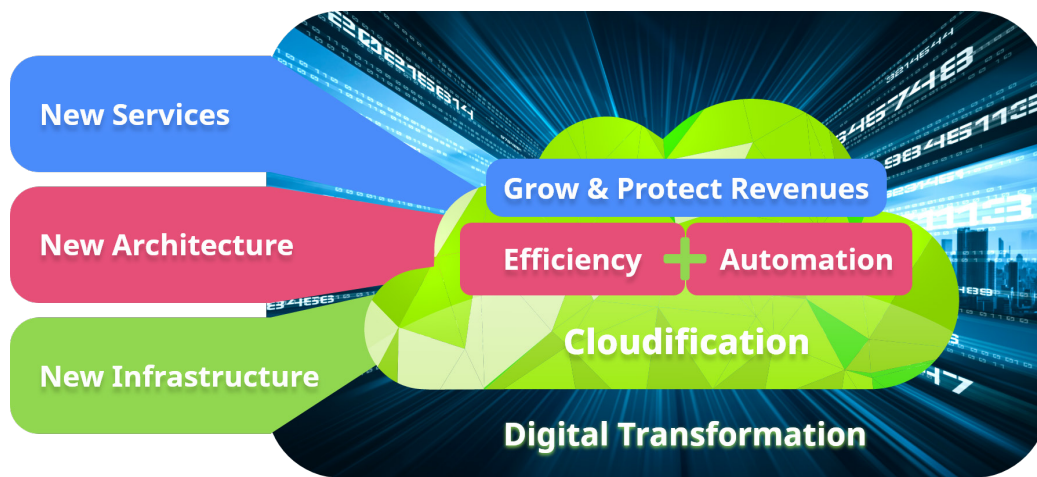
What Operators Need to Know - 5G Standalone Is Different

5G SA is here, and the era of cloudified telecom networks has begun. Ultra-low latency, hyper-density, and network slicing use cases are emerging. Cloudification isn't new, but with 5G SA, the core Network Functions move to the private/public and hybrid clouds. Operators are beginning to scope their requirements looking at network functions (NF), cloud, and service assurance providers.

Service Assurance accelerates the journey. To realize the potential of 5G Standalone, you must control the cloud network. You need to have visibility and insight into the experience of all subscribers. Visibility via Service Assurance solutions in the cloud is pivotal.

Benefits* of 5G Standalone Service Assurance

*Based on real-world examples on cloudified and automated assurance networks

Visibility Challenges Never Seen Before

5G SA is unique with specific visibility and observability challenges including:

- **Different logical layers** across the full stack interdependently working together, unaware of the underlying services and subscriber experience.
- Separation of **control plane and user plane** (CUPS)
- High **dynamicity** of cloud Network Functions
- **Service mesh architecture**
- The **encryption of the 5G Core**
- **Public cloud/hybrid cloud/multi-access edge computing** are new dynamic environments for many Operators and will bring visibility and cost visibility challenges.

Anritsu 5G SA-Ready Solutions

Anritsu addresses the visibility and observability challenges in 5G SA. We have invested in 5G technologies and our Service Assurance portfolio is available as a suite of Cloud Apps. The Anritsu portfolio provides AI-driven automation, performance analytics, troubleshooting including drill-downs, and customer experience solutions, that work together seamlessly, for both 5G SA and 5G NSA (non-standalone) technologies.
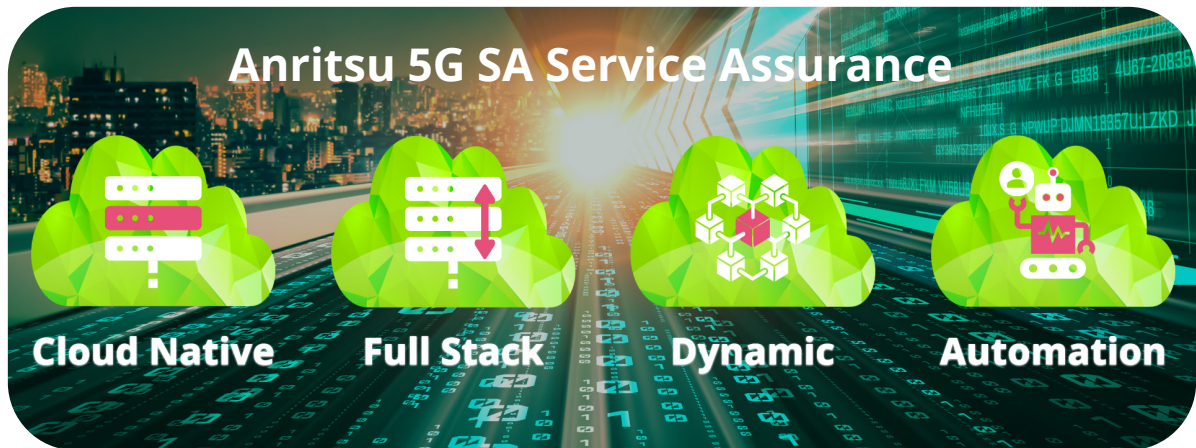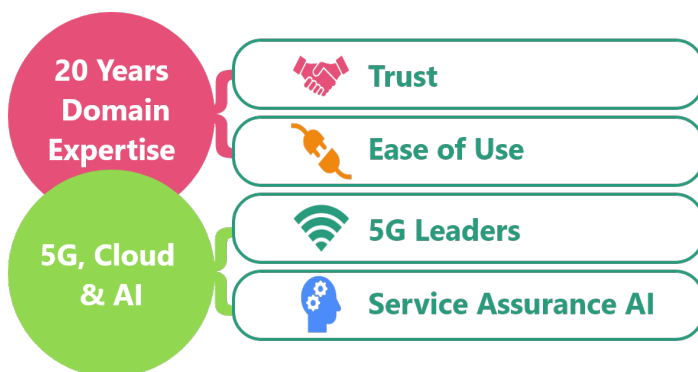

Cloud Native - Anritsu portfolio is cloud-ready, advancing to cloud-native, and works on private, hybrid, or public clouds. We partner with Operators on their preferred configuration.

Full-Stack Visibility - Anritsu brings visibility to the underlying infrastructure layer, the host OS, the hypervisor/guest OS, and the container runtime and the pods of containers.

Dynamic Network - NFs instantiate and terminate dynamically. OSS (Active Inventory or ETSI MANO) integration is required to synchronize with network topology.

Automation - AI and ML automated anomaly detection for real-time closed-loop actions with integrated troubleshooting and workflows.

20 Years Domain Expertise

5G, Cloud & AI

- 🤝 **Trust**
- 🔌 **Ease of Use**
- 📶 **5G Leaders**
- 🧠 **Service Assurance AI**

Trusted Partners and Advisors

Anritsu is deploying 5G SA Service Assurance for Tier-1 Operators. Operators trust our vision and strategy and are enthused by our patented industry-leading AI/ML anomaly detection. Only Anritsu brings 5 years of battle-hardened ML/AI use cases from live networks.

Assure to Accelerate your 5G SA journey