AMDOCS 5G CORE

Redefining how service providers evolve their networks at enterprise level.
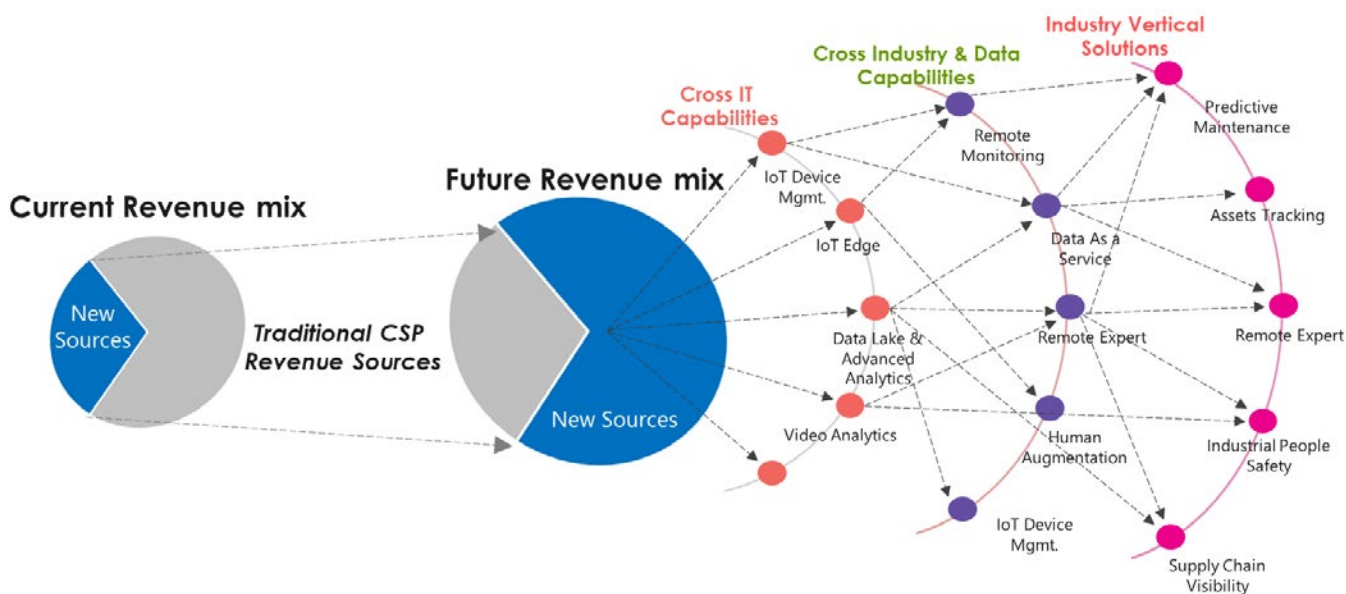
A New Network Approach – for Improved Outcomes

Like many revolutionary technologies, 5G has generated expectations that were always bound to challenge. With a vision so much more ambitious than 4G, challenges along the way were inevitable. 5G services are multi-device oriented, immersive and more highly focused on enterprises (B2B), machine-to-machine capabilities and wholesale B2B2X opportunities although for some time there will be a requirement to operate seamlessly with legacy platforms.

5G technology is more complex, with new and advanced 5G functions providing additional capabilities, mainly related to speed, latency and ability to handle massive internet of things (IoT) – as well as monetization potential. Such industry challenges also represent opportunities for service providers that work with Amdocs and its partners.

In addition, 5G introduces a number of disruptive technologies and new challenges:

- Service based architecture: continuing the evolution to software
- Cloud and Edge computing
- Artificial Intelligence and Machine Learning
- Automation & Zero-Touch networking
- Private & public offerings

The Amdocs Core Network

The Amdocs 5G Core is in fact an "any-G" core network solution that offers a catalogue of digital services with 5G deployability as a key differentiator that will drive and facilitate:

• Revenue growth, expansion and protection

• Expedited time to market of new services to multiple industries

• Lower barriers to adoption through efficient optimization, automation and accelerated delivery processes

Understanding that multi-disciplinary, disaggregated demands require a ecosystem approach, Amdocs has partnered with Microsoft to offer a turn-key, secure, agile, service focused solution.
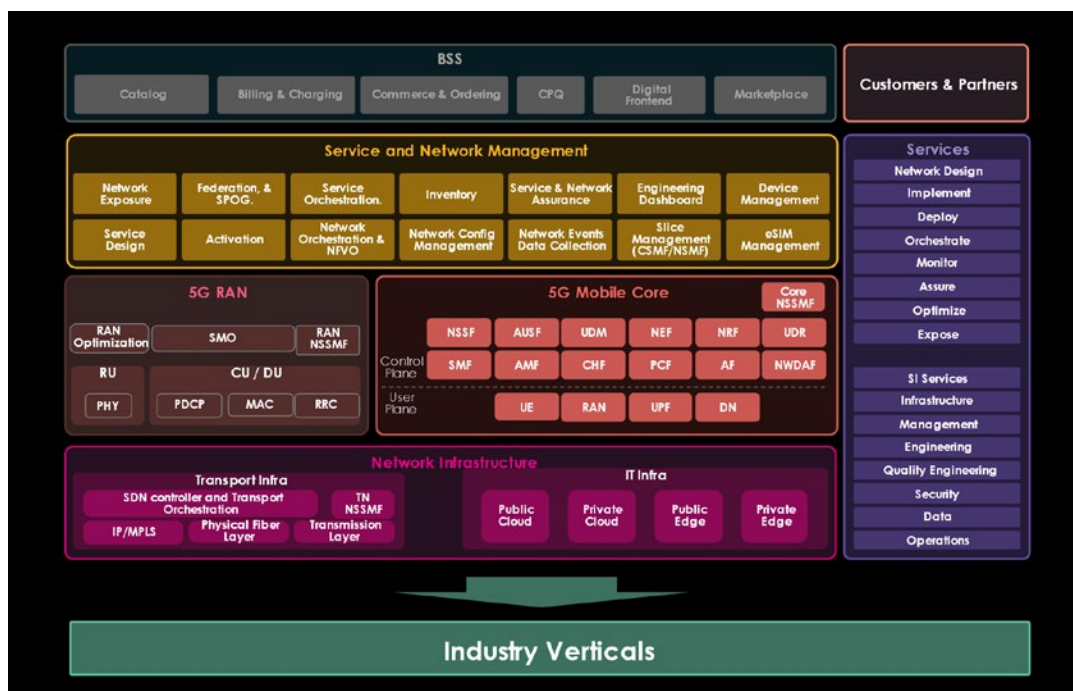
Amdocs' approach is to focus on prioritized value-oriented areas of 5G and network co-ordination capabilities, based on its expertise and experience. The 5G Value Plane is at the heart of Amdocs' 5G monetization and comprises key Amdocs products (Policy, Charging, Exposure and 5G data management). The combined 5G core together

with Microsoft is further benefited by Amdocs' well established, advanced orchestration, managed services, systems integration, design and delivery capabilities to offer a full turn key, de-risked and efficient solution..Through its understanding of current market challenges and pressures on revenues, EBITA and the economics of the industry, Amdocs offers innovative commercial models including xaas, consumption based and pay-as-you-grow commercial models. These unparalleled capabilities combine with and support Azure Operator Distributed Services (AODS) and Azure Operator 5G Core (AO5GC) to provide the richest set of "telco-to-techco" hyperscale-backed capabilities in the industry.

The Ultimate in 5G Readiness

Amdocs and Microsoft combine as the best in the business at what they do in Mobile Core/BSS/OSS as well as Cloud and IT to provide a unique partnership that delivers rapidly deployable "AnyG" Core solutions for service providers.

Tightly coupled AI/Ops, DevOps and CI/CD pipeline processes ensure the highest level of automation focusing on a Zero-Touch Network strategy.

Network Solutions Blueprints Utilizing Amdocs and Partner Capabilities

Features:

- Unified solution with Microsoft cloud management

- Cloud or hybrid cloud options; cloud benefits for on-premise if required: scalability, automated & fast deployment

- "Any G" architecture based on cloud-native with best of breed network functions – and especially Amdocs 5G Value Plane (PCC plus extensions to Amdocs Intelligent Networking, Commerce, Partnership Management, Data Management and AI as needed).

- High automation to simplify deployment, operations and expedite services creation across platform and 5G core applications

- Centralized Management & Operations with a full stack view across Infrastructure and Applications

- Azure as single interface throughout infrastructure and application lifecycles

- Platform and applications built on Microsoft's industry leading zero trust framework

- Proven support for multi-vendor EPC/5G Network functions as necessary on a common unified platform with support for VNFs and CNFs

- All Service Management modules are aggregated into a tailored "single pane of glass" view that reflects key performance metrics, service insights and risk profiles.

Operational Console

Network Service Management

In parallel, in order to meet operational, performance and subscriber expectations a world-leading service management layer is required. Developed across network and IT domains Amdocs has merged the function, performance and optimization benefits of the BSS space with the transparency, tooling and service criticality of the network domain.

A complete portfolio of products for automating and optimizing large scale operations is available to reduce exposure and risk, reduce cost, and improve customer experience.

Zero-Touch and closed loop form the central part of the philosophy with deployment of AI and machine Learning to further advance the overall solution.

The Amdocs Intelligent Networking Suite further supports all aspects of service design, inventory and orchestration across physical, logical and virtual elements for 5G-based services. This includes:

- Full service and network orchestration, network monitoring and control loop to execute the full service management lifecycle across hybrid virtual and physical networks

- Comprehensive set of design tools and development SDKs to support multiple service types Cloud-native, microservices based – deployable in both public and private clouds

- Carrier grade platform, with high availability, advanced logging, self-monitoring and self-healing

- Highly extensible and configurable platform with plugin and customization support

- Aligned with and based on industry leading standards including, ETSI, TMF, ONAP and 3GPP

- Widely deployed system successfully automating multiple enterprise services and mobile core services today in production

5G Core Dashboard

Amdocs Value Focus

Amdocs has built a Network Business Unit focused on addressing multi-domain network complexities with one storefront that brings together disparate network assets delivering an end-to-end, secure, stable, profitable service chain.

- Single cloud native core from Day 1 (5GC SA ready)
- Focus on 5G but with "AnyG" starting point
- A single combined platform with single management
- Shoretened project rollout, reducing overall project risk
- More performant core means reduced costs
- Cloud native core allows deployment of bare metal and removal of hypervisor layer
- Traffic can be migrated incrementally as opposed to 'big bang'. - Co-exist with legacy core but evolve 5G with us
- Pre-engineered and business-friendly interfaces that negate technology roadblocks in favor of business and monetization

Why Amdocs and Microsoft

A unique partnership combining the best of BSS/OSS, IT, cloud and network experience that provides end-to-end confidence and urgency to the vast opportunities to come – especially in 5G. We have cultivated a true "network as a platform" vision that both companies share and that is driving service providers to become hyperscaling "techcos"

Amdocs are uniquely positioned to partner with Microsoft to deliver "shrink wrapped" solutions to the Telco market ("AnyG" Macro Core) and to the enterprise edge, delivered from the Microsoft cloud, managed via a tightly coupled AIOps and NetOps capability based on our products, expertise and eco-system capabilities.

For more information, visit **Amdocs Networks**.