

Private 4G/5G Wireless Network

Amdocs

In conjunction with Microsoft Azure, streamlining the deployment and operation of private networks, while accelerating time to market and delivering an improved customer experience, through focused Industry Vertical solutions.

As the needs and connectivity challenges **Enterprises** related to coverage, capacity, reliability, security and control evolve, they're demanding new communication capabilities that go beyond those enabled by traditional public networks. Private networks provide Enterprises the ability to address these challenges and also it enables **Communication Service Providers** (CSP) to satisfy these requirements and open the opportunity to create additional revenue streams from existing enterprise customers

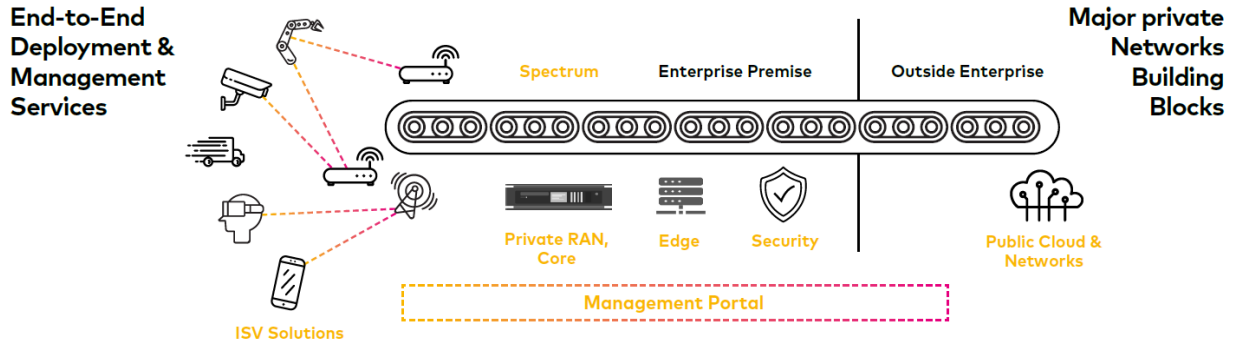
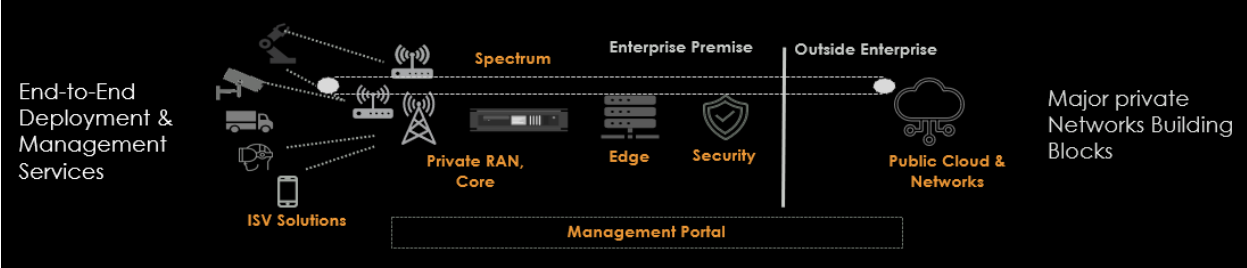
"99% of enterprises build more capabilities on top of their private network",
Omdia

But the deployment of a private network is an intricate process that demands a broad range of skill sets, network components and technologies.

Amdocs Private Networks Offering

Amdocs addresses this challenge by providing end-to-end accountability across all building blocks of a private network. This includes the RAN, Microsoft AP5GC 4G/5G core, transport, security and Industry vertical applications, combined with services for deployment and operations. Our value begins from the outset, when we apply our skills and experience to discover the enterprise's business objectives and then design the best solutions to achieve them. This includes maximizing ROI by choosing the optimal network equipment and vendor solutions mapped to Amdocs tested architectures against vertical use cases to address everything from the initial requirements to the long-term vision.

Our robust network products and expertise are complemented by our vast partner ecosystem, comprising industry-leading providers, start-ups and solution designers who are familiar with a wide range of use cases and experienced in cloud, edge, network spectrum and security. This allows very determined focus on delivering Industry vertical targeted solutions for the Enterprise. We also determine the best way to manage sensitive data – be it on premise or the cloud – and the requirements to support the path selected.



Building blocks for a Private Network deployment

Industry Vertical Blueprints – Amdocs & Microsoft

- **Network Equipment: Multi-vendor RAN** (indoor/outdoor), **Microsoft** core, transport, and user equipment
- **Industry Solutions:** Amdocs' Industry vertical solutions built using a constant evolving ISV application tapestry to ensure innovative technologies for the Enterprise
- **Edge solution:** for customer-premise or remote data storage and processing
- **Security:** end-to-end protection against external attacks
- **Microsoft Azure:** infrastructure and Azure management to support solutions deployed on the private network

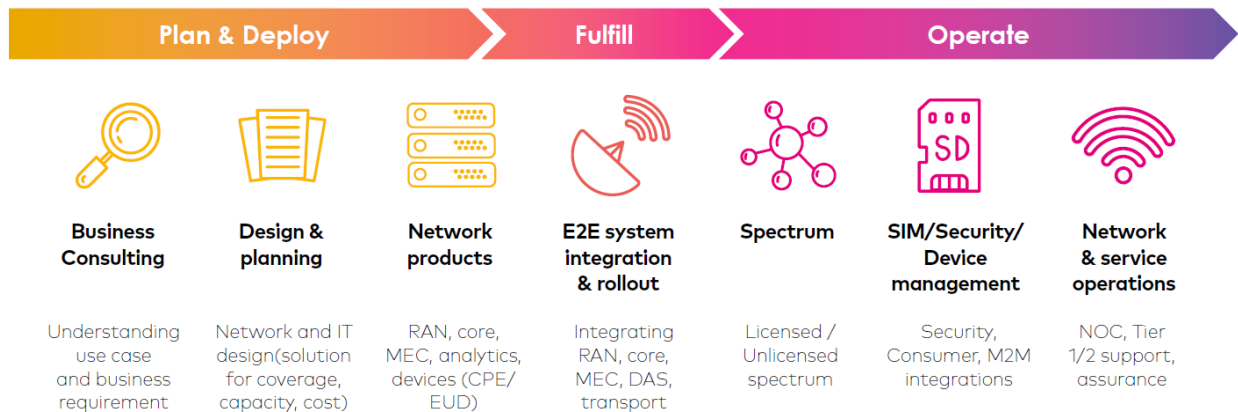
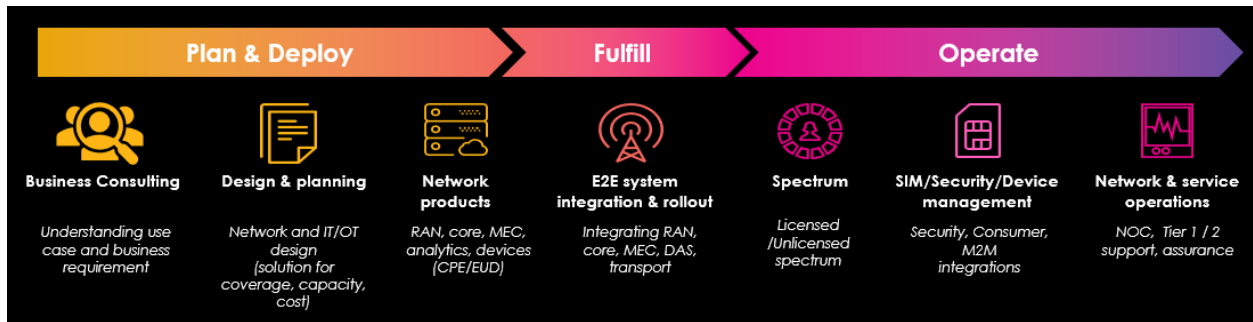
- **Management Portal:** End-to-end monitoring dashboard and analytics for operations and troubleshooting of scalable private networks

- **Per the “Blueprint” delivered by the AP5GC core** – preconfigured Policies, rapid device onboarding and provisioning, tuned networking parameters – all designed to provide maximum flexibility

- **Try & Buy Lab incubation** – all blueprints fully certified within the Amdocs Experience centre, backed by innovation and investment commitment

- **Rapid “Easy Button” deploy** – demonstrated MPN rollout in six weeks...

Our services span business planning and network design to network and service operations. Complemented by our deployment workflow automation and private network management console, this allows us to provide comprehensive management capabilities for effective network operations.



End-to-end network and system integration services for planning, deploying and operating a private network with overall accountability

Rolling out the “Blueprints”

- **Industry vertical consultation and business planning:** leverages Amdocs and Microsoft joint expertise in specific industry verticals combined with an understanding of the enterprise's business goals to determine the appropriate private network solution and technical requirements
- **Network planning and design:** use case investigation and analysis, requirement specification and evaluation, selection of wireless network technologies and solutions
- **Network deployment:** end-to-end engineering services covering planning, design, integration and optimization of components across RAN and core domains, as well as software-powered automation for faster and more efficient rollouts
- **Systems integration:** ensures all applications, IT/OT environments, security components, network components, devices and management capabilities are connected and working seamlessly together, while ensuring the overall network and service meets technical and business requirements
- **Solution management:** full portfolio of network management solutions, including network assurance, NOC operations, triage and SLA management – all based on advanced network monitoring and analytics tools

- **Spectrum management:** helps navigate spectrum options (dedicated, shared, rented) and choose the right RAN vendor to support specific bands.

Software and automation platforms

- **End-user device management:** comprehensive cloud management of end-user and M2M devices, supporting activation, error handling/remediation, profile inventory and system health management
- **Deployment and operations platforms:** automated solution management and support for enterprises and vendors for day-to-day activities
- **Management portal:** End-to-end monitoring dashboard and analytics for operations and troubleshooting of scalable private networks
- **CBRS spectrum access system (SAS):** FCC-approved vendor for 3.5Ghz, providing capabilities such as radio frequency channel allocation and interference protection (US only)

Why Amdocs

Amdocs leverages a deep understanding of existing capabilities and strategies to create tailored solutions that combine our own assets with those of the service providers' enterprise customers. Our holistic solution design approach considers enterprise requirements, use case, future vision, as well as the degree to which the enterprise wishes to manage their own network operations.

Leveraging our 5G labs, vendor experience, flexible solution blueprints and private network deployment experience, we test vertical solutions on connected network architectures and deploy them at scale with a faster time to market while being a single point of accountability for committed SLAs, minimizing risks associated with private network implementations. Meanwhile, our global delivery and support organization – spanning RAN, core, cloud, IT, system integration, transport, security and software domains – enables us to manage all the complexities of an end-to-end private network solution.

With our combination of deployment and automation, private network management console and AI-enabled operations services, we lead the industry in enhancing the customer experience, while improving overall operational efficiencies.

Learn more

To discover how Amdocs' private network solutions can help your enterprise customers, reach out to networkmarketing@amdocs.com