

solution overview



Amdocs Private Wireless Network Solution



Accelerating CBRS-based private wireless networks with end-to-end solutions combining spectrum access system (SAS) administration service with comprehensive network services & solutions

The evolving needs and connectivity challenges of organizations related to coverage, capacity, reliability and control require new communications capabilities beyond traditional public networks. Private wireless networks have been discussed – and used in some places – for years, but a perfect storm of technology developments and demand is pushing the market forward at a much faster pace now.

Enter a new era of opportunities

The prospect for businesses and organizations to more easily and cost-effectively deploy private wireless networks has significantly improved due to the convergence of several factors:















- **Shared wireless spectrum** via CBRS in the US (with active progress elsewhere in the world to adopt similar models).
- **Proven providers** of network engineering services and solution with end-to-end 'blueprints' and practices for network design, rollout (including integration), testing and operations.
- **Expanded open ecosystem** for RAN and core network components (e.g. TIP, O-RAN, Open Source Core).
- **5G standards/technology** (some on the way still) such as network slicing and edge computing.

But there are many challenges and complexities that need to be dealt with across the full lifecycle of tailoring, rolling out and operating a private wireless network.

Partner with Amdocs for this journey

Amdocs helps businesses realize the opportunity to leverage private wireless networks to better run their operations and meet the needs of their customers. Amdocs' advanced software and consulting service capabilities, including Spectrum Access System (SAS) administration service, and deep network expertise help bridge the worlds of enterprise IT, Internet of Things (IoT) and LTE/5G/private networks to address the unique communications and connected-applications requirements of utilities, manufacturers, healthcare organizations and numerous other businesses. The Amdocs Private Wireless Network solution covers:

- **Consulting and planning/design services:** Investigation and analysis of use-cases, specification of requirements and evaluation/selection of wireless network technologies and solutions.
- **SAS administration service:** FCC approved vendor providing several capabilities such as radio frequency channel allocation and interference protection. Interoperable with 15+ CBSD and domain proxy manufacturers and includes seamless analytics and reporting. Offered for a range of payment options, including opex, capex and tailored mix of commercial arrangements.
- **Network rollout services:** End-to-end engineering services covering planning, design, integration and optimization for components across RAN and core domains. Software-powered automation for faster and more efficient rollout.
- **Network operations:** Full portfolio of network management solutions including network assurance, NOC operations, triage and SLA management, all based on advanced network monitoring and analytics tools.
- **End-user device management:** Comprehensive eSIM management platform for end-user and M2M devices. Supports activation, error handling/remediation, profile inventory and system health management.
- **Systems integration:** Systems integration support for network components (RAN, core, SAS) plus software and integration support for workflow, orchestration, inventory, automation (including 5G slice management), policy management (PCRF) and converged charging.

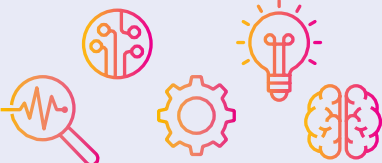

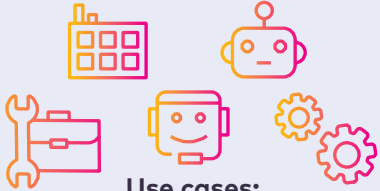
Technology Consulting	Planning & Design	Spectrum Allocation	Rollout & Launch	Network Operations	Device Management	Systems Integration
 <p>Use cases, requirements, technologies, solutions</p> 	 <p>Site survey, RF design, coverage, capacity, dimensioning</p> 	 <p>FCC approved 3.5 GHz CBRS SAS vendor GAA, PAL</p> 	 <p>RAN, Core, Integration, Service Turn-up, Rollout automation</p>  <p>Connect</p> 	 <p>Triage, KPI monitoring, Analytics SLA Management, Assurance</p> 	 <p>eSIM platform for Consumer and M2M devices</p>  <p>Orchestrator</p>	 <p>Network: RAN, Core, SAS OSS: SOM, Inventory, Activation</p> <p>Charging, Billing: BSS, OCS, PCRF</p>

Experience compelling benefits today

Businesses across a range of verticals/segments are realizing the benefits from private wireless network deployments:

- **Smart utilities:** Leveraging private networks for highly reliable and secure automation for smart grids. Specific use cases include smart metering (measure use, detect tampering, monitor quality), distribution automation (monitor equipment health, react to outages/fluctuations, automate feeder switches / capacitors / voltage regulators) and surveillance (detect/track/notify perimeter intrusion, authenticate access, drones to monitor infrastructure).

- **Venues & Campuses:** Support a variety of services and IoT applications. Specific use cases include reliable voice/data (in-building coverage, campus coverage, VoIP, wireless LAN), enterprise applications (smart building IoT, video surveillance, video chats, HD video streams), and roaming to public networks (off-campus, seamless service transition, network sharing).
- **Smart manufacturing:** Enable highly automated and reliable industrial processes. Use cases include motion control (printing machine, machine tool, packaging), mobile robots (cooperative motion control, video-operated remote control) and process automation (monitoring, corrective actions).

Smart Utilities	Venues & Campuses	Smart Manufacturing
 <p>Use cases: Smart Metering Distribution Automation Security & Video Surveillance</p>	 <p>Use cases: Reliable voice, data Enterprise Applications Roaming to public networks</p>	 <p>Use cases: Remote Machinery Control Untethered Robots Automated Manufacturing</p>

Learn more

To learn more about how Amdocs' private network solutions can help businesses contact us at: networkmarketing@amdocs.com



about amdocs

Amdocs' purpose is to enrich lives and progress society, using creativity and technology to build a better connected world. Amdocs and its 25,000 employees partner with the leading players in the communications and media industry, enabling next-generation experiences in 85 countries. Our cloud-native, open and dynamic portfolio of digital solutions, platforms and services brings greater choice, faster time to market and flexibility, to better meet the evolving needs of our customers as they drive growth, transform and take their business to the cloud. Listed on the NASDAQ Global Select Market, Amdocs had revenue of \$4.1 billion in fiscal 2019. For more information, visit Amdocs at www.amdocs.com.

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