SOLUTION BRIEF

Migration Services for MWL

In the rapidly evolving manufacturing industry, migrating from legacy network systems to a more advanced and efficient RUCKUS® network is essential for maintaining operational excellence and embracing the transformative potential of industry 4.0. This technical paper outlines the best practices for planning and executing network migrations—ensuring minimal disruptions and continuity of operations. By leveraging RUCKUS Professional Services, manufacturers can benefit from improved productivity, reduced downtime, customized network designs, robust security measures, scalability, and future-proofing.

The migration methodology involves a comprehensive process flow, including design intake, site and data collection, gap analysis, and the execution of the migration process. Post-migration support ensures a smooth transition and knowledge transfer. RUCKUS Professional Services provides the expertise needed to optimize network design, configuration, and maintenance, leading to streamlined operations and efficient communication. Proactive monitoring and predictive maintenance practices reduce unplanned downtime, while tailored network architectures meet the unique requirements of manufacturing environments.

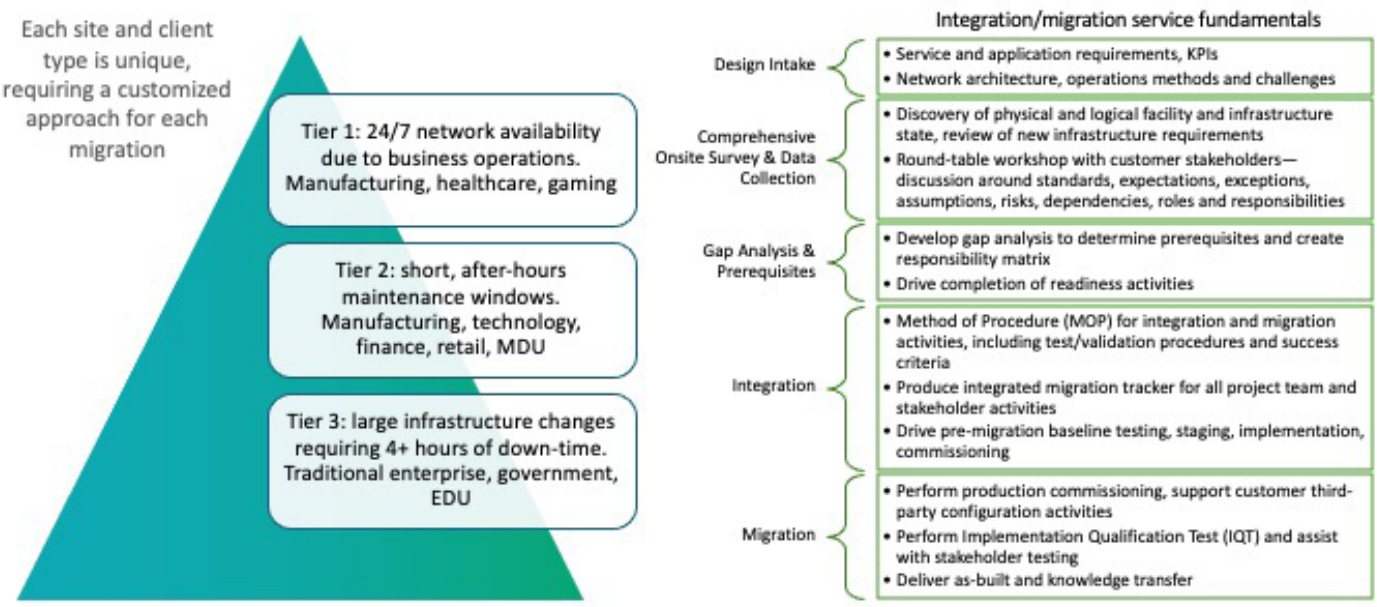
Security is paramount, with customized protocols protecting against cyber threats and ensuring data integrity. Scalability and future-proofing are addressed by preparing the network for growth and adopting the latest technologies. Risk mitigation strategies, including redundancy and disaster recovery plans, ensure reliable infrastructure and compliance with industry standards. Training and ongoing support from RUCKUS Professional Services further enhance the network's performance and reliability.

Migration method planning

Thorough planning and execution of network migration strategies minimize disruptions during the transition from legacy to new networks, ensuring continuity of operations.

Migration methodology typically follows these steps yet is customized for the specific needs of each project. The three different tiers described in the following diagram dictate the approach given the operational aspects of the MWL environment being migrated.

The tiered approach to migration methodology



Process flow

- Design intake: Gather requirements
- Comprehensive site and data collection: Collect detailed information
- Gap analysis and prerequisites: Identify gaps and prerequisites
- Integration/migration: Execute the migration process

Integration/migration service fundamentals

- Define service and application requirements (SARs)
- Discover physical and logical infrastructure elements
- Develop plans to address prerequisites and constraints

Post-migration support (30+ days)

- Provide post-commissioning support and knowledge transfer

RUCKUS provides the skill and experience

RUCKUS Professional Services provides advantages in manufacturing networking environments, building upon the product advantages we discussed earlier.

Improved productivity

Streamlined operations: RUCKUS Professional Services optimizes network design, configuration, and maintenance. A well-designed network provides efficient communication among devices, leading to smoother operations and increased productivity.

Efficient communication: Properly implemented networks allow real-time monitoring and control of equipment. This responsiveness minimizes delays and bottlenecks, enhancing overall productivity.

Reduced downtime

Proactive monitoring: Professional Services provides continuous monitoring of the network. Early detection of issues allows for timely intervention, reducing unplanned downtime. Predictive maintenance practices help keep equipment operational, minimizing disruptions.

Customization and tailoring

Network design: Professionals assess the unique requirements of manufacturing environments. They tailor the network architecture to match specific needs, whether it's high-speed data transfer, low latency, or seamless connectivity across different production areas.

Security measures: Customized security protocols protect against cyber threats, maintaining data integrity and preventing unauthorized access. Professionals implement robust firewalls, intrusion detection systems, and access controls.

Scalability and future-proofing

Growth readiness: As manufacturing facilities expand or adopt new technologies, Professional Services can help to scale the network seamlessly. Whether it's adding more devices, integrating internet of things sensors, or accommodating additional production lines, scalability is essential.

Technology upgrades: Professionals stay informed about industry trends and advancements. They guide organizations in adopting the latest networking technologies (such as Wi-Fi® 7) to future-proof their infrastructure.

Risk mitigation

Reliable infrastructure: Professional Services minimizes the risk of network failures. Redundancy, failover mechanisms, and disaster recovery plans are put in place to minimize interruptions to operations.

Compliance and standards: Professional Services provides network audit services, helping customers maintain adherence to industrial standards, such as ISO 9001, and reducing legal and operational risks.

Training and support

User training: The Professional Education Group will educate staff on network usage, troubleshooting, and best practices. Well-trained employees can handle minor issues independently, reducing reliance on external support.

Ongoing support: In addition to the Watch Dog or Bull Dog support, which provide ongoing assistance, including updates, patches, and resolution of typical product issues, the Professional Services team offers specialized venue care services to provide performance optimization and assurance of your network's health and performance.

Migrating from legacy network systems to a RUCKUS network in manufacturing environments is a strategic move that can significantly enhance operational efficiency, productivity, and security. By following a well-defined migration methodology that includes thorough planning, comprehensive site and data collection, gap analysis, and post-migration support, manufacturers are able to transition with minimal disruptions. RUCKUS Professional Services provides the expertise and tailored solutions necessary to optimize network design, configuration, and maintenance, leading to streamlined operations and efficient communication.

The benefits of a RUCKUS network extend beyond immediate operational improvements. Proactive monitoring and predictive maintenance practices reduce unplanned downtime, while customized security measures protect against cyber threats and loss off data integrity. Scalability and future-proofing are addressed by preparing the network for growth and adopting the latest technologies. Risk mitigation strategies, include redundancy and disaster recovery plans, to maintain reliable infrastructure and compliance with industry standards. Training and ongoing support from RUCKUS Professional Services further enhance the network's performance and reliability.

By embracing these best practices and leveraging the advantages of RUCKUS Professional Services, manufacturers can build robust and efficient networks that support their operational goals and drive future growth. This paper provides a comprehensive roadmap for successfully migrating to a RUCKUS network, and remaining at the forefront of technological innovation in your manufacturing facilities.

About RUCKUS Networks

RUCKUS Networks builds and delivers purpose-driven networks that perform in the demanding environments of the industries we serve. Together with our network of trusted go-to-market partners, we empower our customers to deliver exceptional experiences to the guests, students, residents, citizens and employees who count on them.

www.ruckusnetworks.com

Visit our website or contact your local RUCKUS representative for more information.

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