

Transform industrial manufacturing with digital tools and technologies



Is your factory digitally connected? AT&T digital solutions and technologies help manufacturers compete globally and efficiently in revolutionary ways. Digital tools help drive operational enhancements and improve visibility in inventory management, asset utilization, productivity, security, and more.

As manufacturing shifts to an environment that includes more sensors and other devices, the volume of useful data continues to increase. AT&T solutions help manufacturers analyze this data, streamline operations, mobilize people, and enhance security. Digital solutions also can help reduce costs, integrate systems, and connect all aspects of the factory floor.

Manufacturing operations today generate twice as much data as any other industry segment.* Companies that adopt digital technology are poised to thrive in today's increasingly competitive manufacturing environment.

Digital solutions support collaboration and can help increase productivity. Information collected from sensors can be loaded into dashboards that are accessible across mobile devices, tablets, laptops, and digital signage. Integrated devices allow employees to collaborate with others in remote locations or in the field. Flexible networks allow the ability to scale according to user demand, and highly secure cloud storage means data is better protected from cybersecurity threats.

*Source: <https://www.mckinsey.com/business-functions/operations/our-insights/digital-manufacturing-the-revolution-will-be-virtualized>

Why go digital?

- **Minimize network connectivity costs**
Flexible bandwidth allows network optimization based on fluctuations in usage.
- **Enhance cybersecurity**
Highly secure cloud storage and threat monitoring help keep data safer and better protected against cybersecurity breaches.
- **Increase operational efficiency and visibility**
Internet of Things (IoT) devices enable predictive maintenance and remote equipment monitoring, which can reduce machine downtime and other costly disruptions.
- **Help employees stay connected**
Connected employees can collaborate quickly, which can help save time and drive efficiency.
- **Help stay on top of safety**
Sensors monitor the environment and automatically report potentially hazardous conditions, alerting employees so they can take action more quickly.



- 1 Productivity and collaboration tools**
Choose managed mobile devices, automatic notification, and tools like AT&T Collaborate. Enable plant floor communication and promote safety with AT&T Enhanced Push-to-Talk, mobile devices, and notifications.
- 2 Internet of Things (IoT) solutions**
Reduce costs and gain efficiency with AT&T IoT solutions that help you sense and adapt, improve operational visibility, address regulatory and compliance requirements, and respond to competitive pressures.
- 3 Increased visibility of plant floor information**
Digital signage can provide an accurate, near real-time view into production metrics, workflow activity, and in-use component parts on the plant floor. Mobile applications can help extend that visibility to the field.
- 4 Security management**
Identify cybersecurity risks to your enterprise faster and more accurately with an enhanced threat analysis and monitoring solution such as AT&T Threat Manager. Get highly secure and scalable connections to applications and data using AT&T NetBond.
- 5 Training tools**
Digital devices enable easy sharing of instructions and 3-D model drawings. Train employees with digital content delivery and remote conferencing over high bandwidth.
- 6 Network flexibility**
Networking technologies such as AT&T FlexWareSM can potentially lower capital investments. Dynamic throughput capability through core network products can scale bandwidth to optimize your operational demand. Dynamic hybrid networking allows you to create the right network for your needs, and combine wired with wireless networks like Wi-Fi with global cellular networks. Reduce costs with broadband offload of non-critical applications using policy-based routing with SD-WANs.
- 7 Safety monitoring**
Digital tools can help prevent safety issues while providing metrics. Monitor hazardous material storage levels with camera-based or sonar-based sensors and flare cameras. Alert workforce to potential safety hazards.



Why AT&T? AT&T can deliver the technologies essential to transform your manufacturing—including IoT solutions, high-speed connectivity, industrial Wi-Fi mobility services, mobile apps development, content delivery networks, content management, digital signage, and more. We also offer expert consulting and support services to find the solutions you need.

To learn more about how AT&T digital technologies and solutions can transform your manufacturing operations, contact your AT&T sales representative today or visit att.com/manufacturing.

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