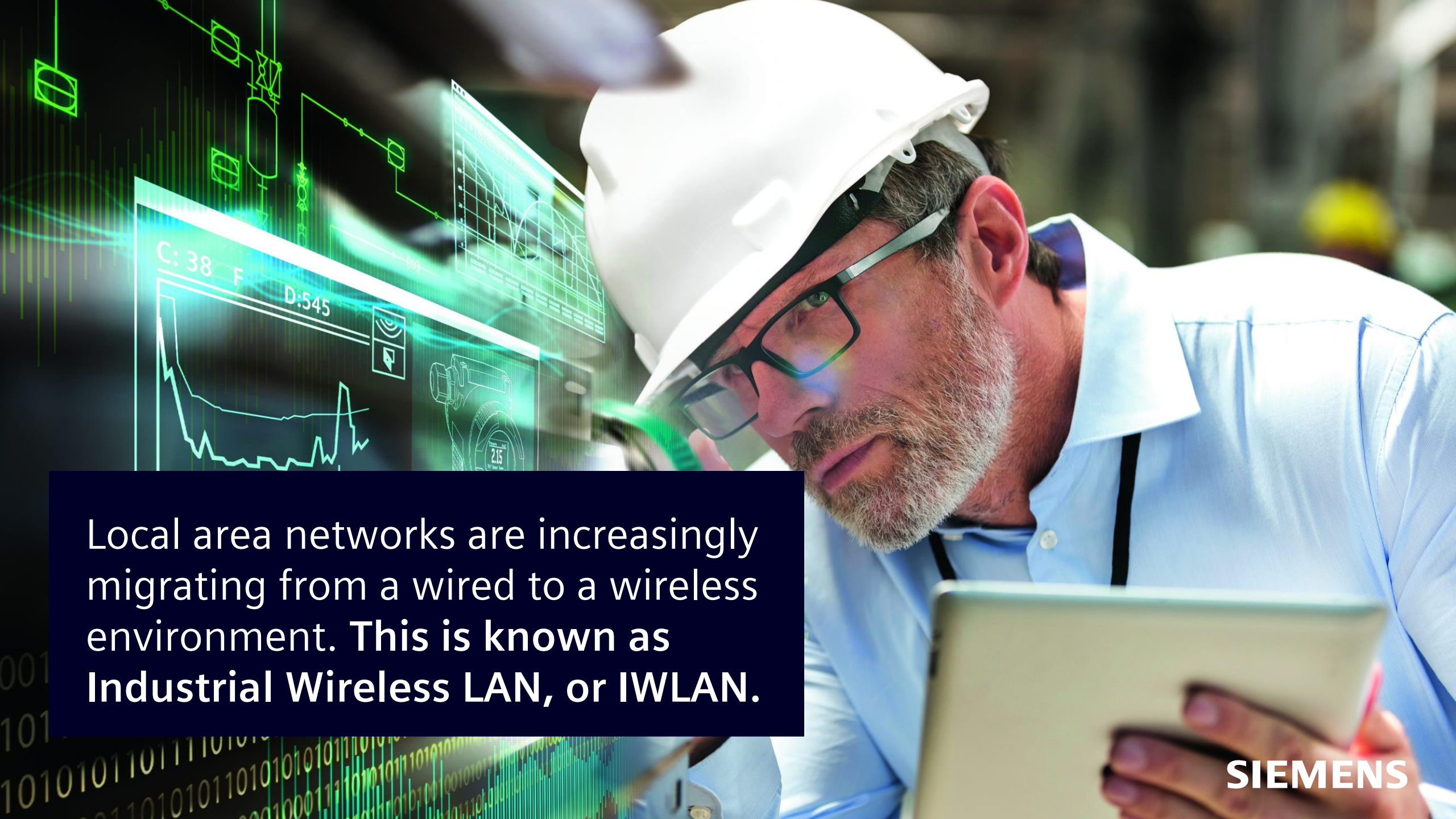





The Benefits of Wireless Networks in an Industrial Environment

SIEMENS

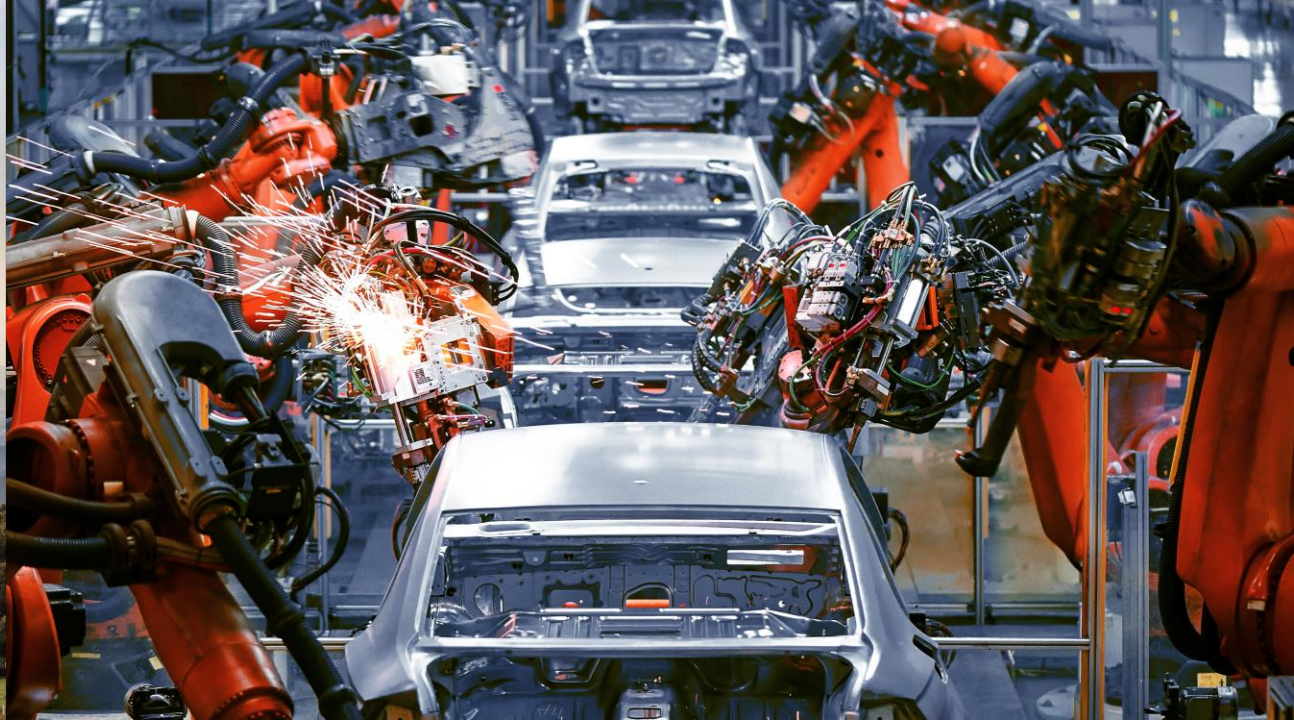
A man wearing a white hard hat and glasses is looking down at a tablet. The background is a blurred industrial setting. Overlaid on the image are various digital elements: a green line graph with a peak and a dip, a temperature reading 'C: 38 F' and 'D:545', a small icon of a wireless signal, and a circular gauge showing '2.15'. In the bottom left corner, there is a binary code overlay consisting of green and yellow digits.

Local area networks are increasingly migrating from a wired to a wireless environment. **This is known as Industrial Wireless LAN, or IWLAN.**

A man wearing a yellow hard hat and blue overalls over a grey t-shirt is shown in profile, looking down at a tablet computer he is holding with both hands. The background is a blurred industrial factory environment with various machinery and structures. A dark blue rectangular box with white text is overlaid on the right side of the image.

Industrial wireless communication is a key element in the digital transformation of modern industrial facilities taking place today. Today's advances in network digitalization would be impossible without IWLAN.

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Businesses in a variety of industries can reap significant benefits by switching from wired to a wireless network.



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Wireless connections are ideal for plant-level applications where laying cable would be too complex, or even impossible.

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IWLAN provides the highest level of network data security using the latest protocols (802.11ax) and encryption.



SIEMENS




Siemens has developed dedicated IWLAN products with **purpose-built functionality** to meet the specific demands of industrial wireless local area networks.

SIEMENS

Both the hardware and software of IWLAN network components must meet specific security and performance requirements for industrial use. **Siemens has developed special iFeatures specifically for use in industrial environments.**




SIEMENS

A photograph of a modern building's interior ceiling. A white, rectangular Siemens IWLAN Access Point is mounted on a grey acoustic ceiling tile. To the left of the access point is a large skylight with a black frame, showing a view of the sky. Below the access point, a square ventilation grille is visible. The Siemens logo is printed on the access point.


Siemens iFeatures can be easily activated as software on various IWLAN Access Points and Client Modules. **They are suitable for all industries and a broad range of technical plant applications.**

SIEMENS

A large offshore oil platform with yellow structural beams and white cylindrical storage tanks, situated in the blue ocean under a clear sky. The platform features complex piping, ladders, and a crane. A dark blue text box is overlaid on the right side of the image.


Siemens IWLAN products cover a wide range of applications for both indoor and outdoor use. They are uniquely suited to many industrial applications — even when subjected to the harshest operating conditions.

SIEMENS

A man with a beard, wearing a yellow hard hat and a dark suit over a white shirt, is looking down at a tablet computer he is holding. He is standing in a factory or industrial setting. In the background, another person wearing a white hard hat and a high-visibility yellow vest is working. The background is filled with industrial machinery and equipment.

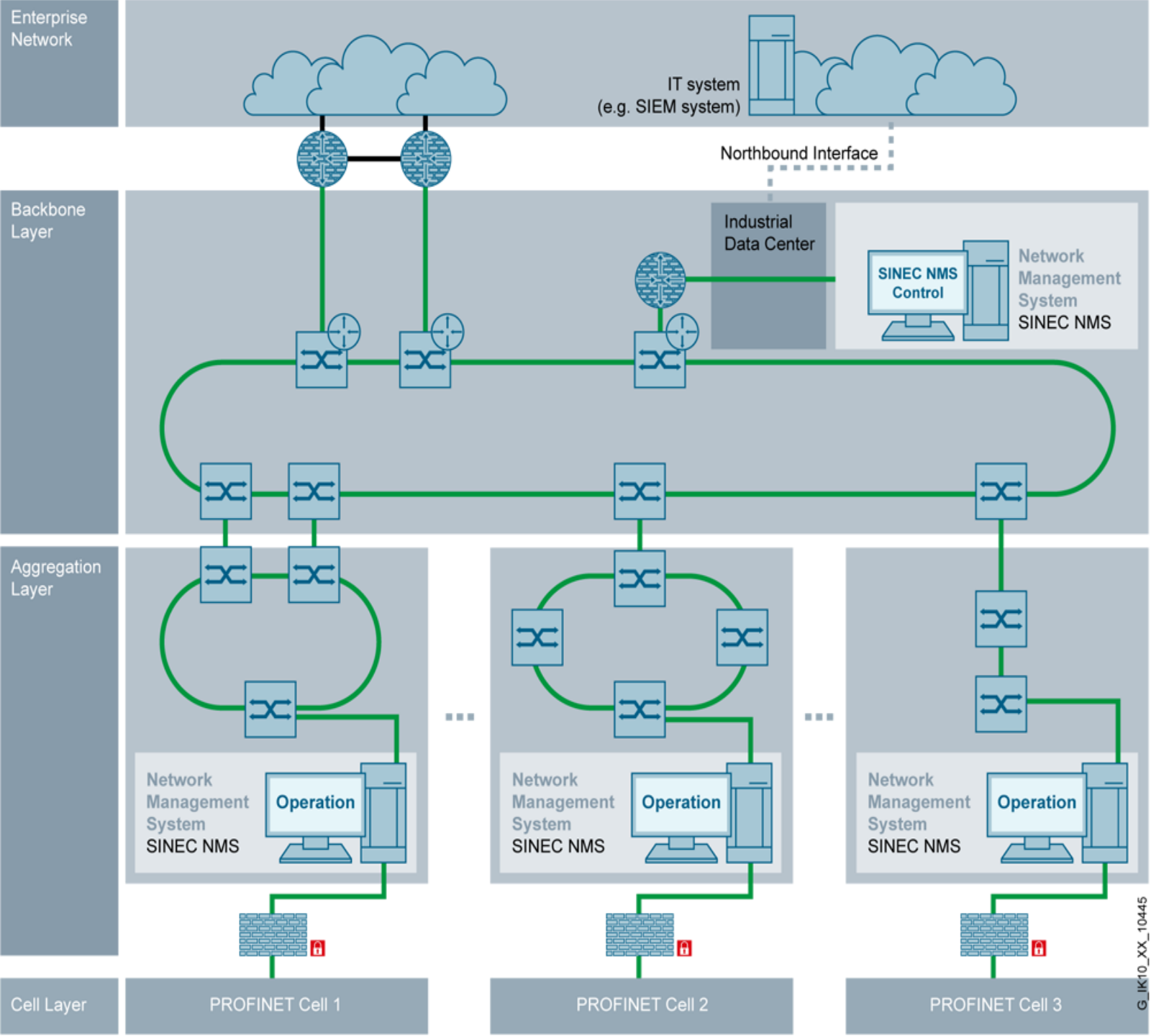
**Siemens IWLAN solutions
guarantee maximum network
uptime, reliability and performance
while boosting efficiency, increasing
flexibility and improving safety.**

SIEMENS


A woman with blonde hair, wearing a grey blazer over a dark top, is standing in a factory or industrial setting. She is holding a tablet and looking at it. The background shows industrial equipment, pipes, and overhead lights.

Siemens IWLAN products make reliable wireless connections possible using three integrated diagnostic tools:

- Spectrum Analyzer
- Signal Recorder
- Remote Capture



The Siemens Network Management System, SINEC NMS, makes configuration of industrial wireless networks simple. This includes extending the network with additional components to avoid errors.



Siemens IWLAN solutions
are being used in a number
of different industries today
including:

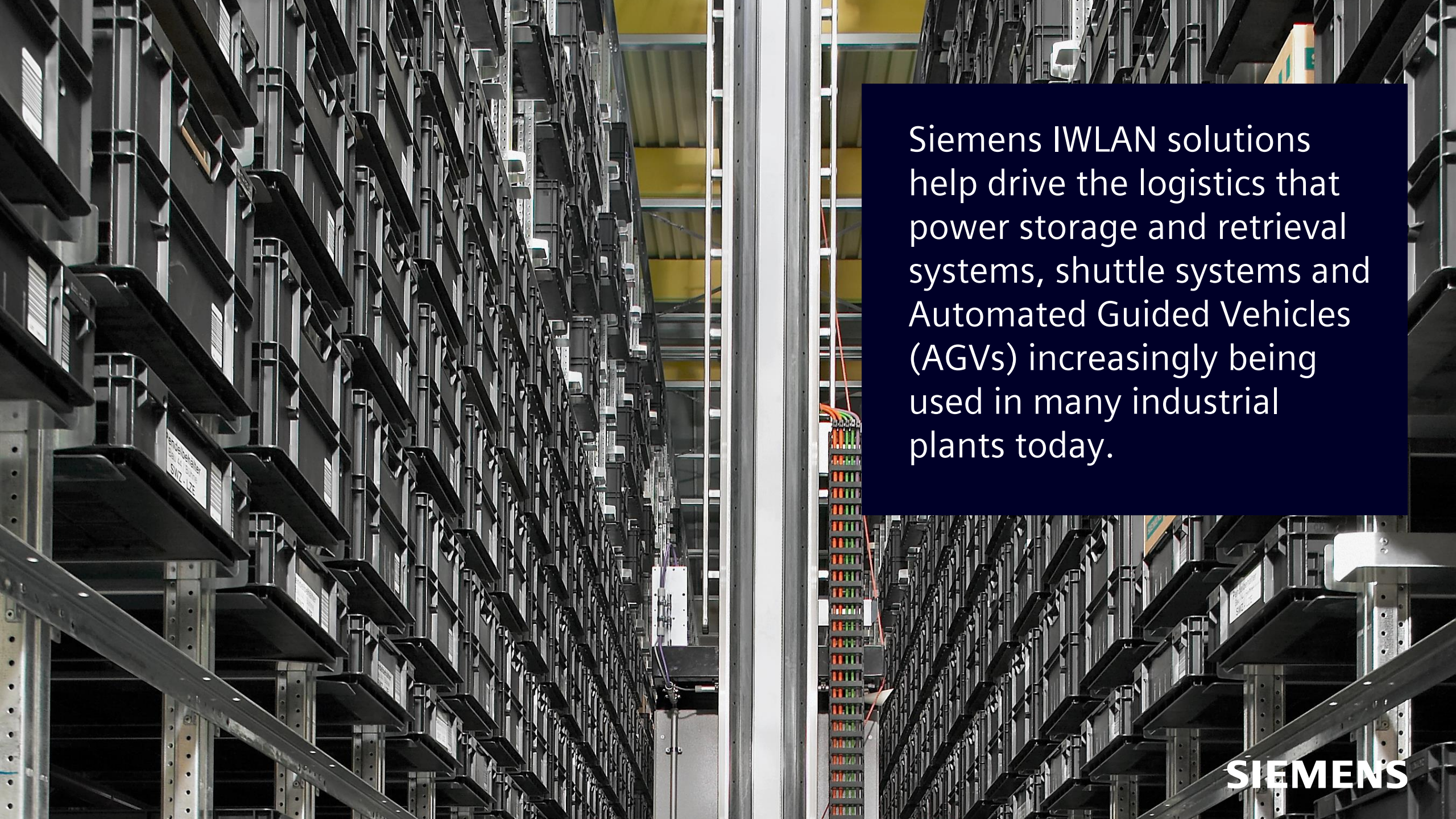
- Transportation Systems
- Logistics
- Automobile Manufacturing
- Amusement Park Rides

SIEMENS



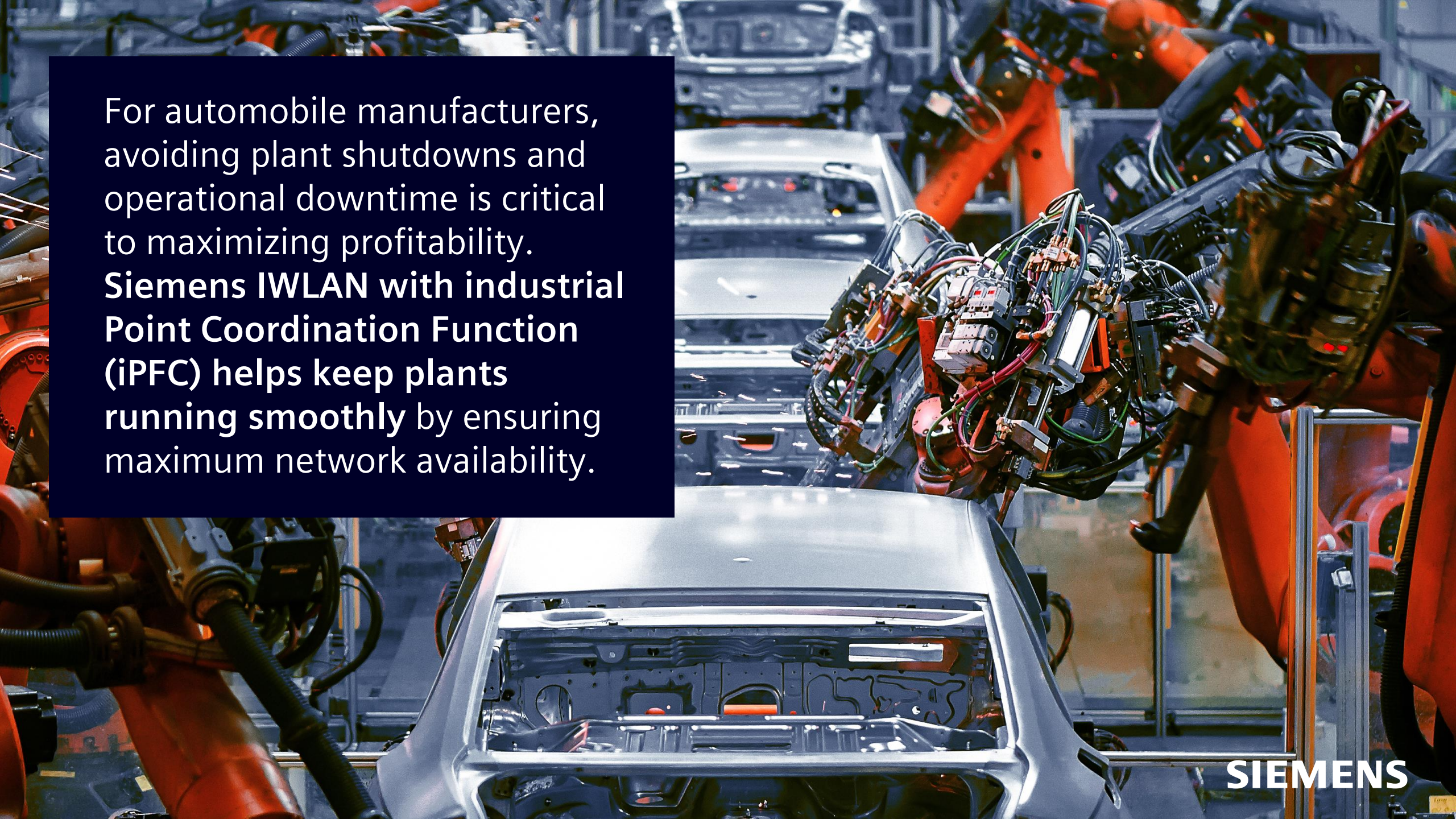
Siemens IWLAN makes it possible to use parallel radio links in wireless network design. This ensures that the system is not affected if one of the two networks fails.

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Siemens IWLAN solutions help drive the logistics that power storage and retrieval systems, shuttle systems and Automated Guided Vehicles (AGVs) increasingly being used in many industrial plants today.

SIEMENS

A photograph of an automotive assembly line. In the foreground, the metal chassis of a car is visible, with its interior structure exposed. Several large, orange robotic arms are positioned around the car, some holding components or tools. The background shows more cars on the line and industrial equipment. The lighting is bright, typical of a factory environment.


For automobile manufacturers, avoiding plant shutdowns and operational downtime is critical to maximizing profitability. **Siemens IWLAN with industrial Point Coordination Function (iPFC)** helps keep plants running smoothly by ensuring maximum network availability.

SIEMENS



Visitor safety is the number one priority for theme and amusement parks. **Siemens IWLAN** permits features like an emergency stop function to interrupt a ride at any time a safety issue is detected.

SIEMENS

A man with short brown hair and a slight smile is standing in a factory. He is wearing a dark blue long-sleeved shirt and a bright yellow high-visibility safety vest. His arms are crossed. The background is a blurred industrial setting with metal structures, pipes, and yellow overhead cranes.

Creating a first-class industrial communication network requires a thorough understanding of network design and implementation.

With Siemens Professional Services, you receive guidance to develop a tailored network solution for your business.

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Schedule a free consultation by sending an email to **siemensci.us@siemens.com**.

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