



Digital Connectivity & Power Professional Services

A service portfolio that helps you fully utilize the opportunities of digitalization.
[siemens.com/digital-connectivity](https://www.siemens.com/digital-connectivity)

SIEMENS



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Siemens is your trusted partner

Siemens provides end-to-end solutions for state-of-the-art industrial communication networks. We offer full implementation based on our long-standing technical expertise and our know-how in large-scale project management.

Siemens will be your partner throughout the entire process, offering their expertise in consulting, design, implementation, and integration, as well as providing updates, long-term maintenance, and training services.

Thanks to our international footprint and comprehensive network of local partners around the globe, Siemens is always close by and on site – with a comprehensive portfolio of professional services covering all communication network demands.

Professional Services at a glance

Design and Consulting

Whether for a new or an existing network, an expansion project, or an upgrade, we perform a thorough analysis of your network and infrastructure requirements as part of our Design & Planning Services and Site Surveys. We then work with you to determine which measures are best suited to meet your needs.

Integration and Deployment

Our Pre-Configuration and Testing Services minimize the risk of malfunctions and outages in your communication network. Our Implementation Services also let you benefit from rapid commissioning and certainty during the construction phase, ensuring the smooth operation of your plant and network.

Service and Support

With Siemens, the journey doesn't end with the implementation. We will continue to work with you over the entire lifecycle of your system with long-term maintenance and support.

Training Services

Personnel training is an efficient way of ensuring the perfect operation and efficient maintenance of a network. The complexity of modern enterprise-wide communication networks means that the system must be understood as a whole. We share this knowledge as part of our standard training courses, which analyze the interaction of automation and IT systems from the ground up. Our training offering also includes certification and customized courses.

Industrial and Infrastructure Networks

Companies need industrial communication to control machines and plants. Optimal utilization of the data generated in production also requires that Operational Technology (OT) and Information Technology (IT) networks seamlessly interact. With our complete range of services and solutions for industrial networks, we help you lay an optimal foundation for digitalization and accompany you from the very start as you navigate the digital transformation.



Design and Consulting

Assessment Services

Before starting to implement, expand, or modernize an OT network, it makes sense to get a clear picture of the actual performance of the current network as well as its level of security. For this purpose, our experts offer the following services:

- Industrial networks health check
- Cybersecurity assessments (following security best practices and recommendations of industry standards such as NIST or IEC/ISA 62443)

Key benefits at a glance

- Grants insight into the current actual state of the network
- Highlights recommendations and immediate actions to address current issues
- Uncovers potential risks in the current network architecture
- Captures/documents details of findings and recommendations
- Suggests a path forward to close gaps and protect assets and critical infrastructure
- Provides expert knowledge on state-of-the-art technology

Design and Consulting

Implementing a network solution for industries in the correct way requires expert know-how. That goes for both existing networks and networks to be set up for new industrial plants. Together with the customer, we develop a clear picture of the requirements to develop a solution designed specifically to meet their needs.

Our experts support you with the following offering:

- Industrial network design services ranging from high-level to detailed granular low-level design
- Industrial DMZ (demilitarized zone) design
- Network consulting encompassing both hardware and software
- Proof of concepts
- Network management with the SINEC software family
- Remote access concepts
- OT cybersecurity consultation

Key benefits at a glance

- Leverages Siemens' industrial network expertise in designing complex industrial networks
- Ensures proper network implementation using products that fit best
- Eliminates ad hoc configurations
- Provides documented network design
- Generates scalable design documents ranging from concept to implementable engineering documents
- Supporting IT/OT convergence

Integration and Deployment

To utilize our network design services, it's all about getting up and running quickly. We help you to minimize the risk of malfunctions and outages in your communication network. Our implementation services also let you benefit from rapid commissioning and certainty during the construction stage, all of which will ensure your network is fit for the plant's operation.

- Pre-configuration service of hardware components
- Factory acceptance testing (FAT) of equipment prior to delivery
- On-site and remote implementation services
- Configuration of hardware according to project specifications
- Commissioning and integration of SCALANCE & RUGGEDCOM network components as well as SINEC & RUGGEDCOM software families

Key benefits at a glance

- Reduction of on-site installation time
- Verified and documented network commissioning
- Significantly reduced risk of failure for critical deployments by ensuring the correct operation of network before hardware is shipped
- Fast, accurate on-site project implementation utilizing scalable Siemens resources with years of experience, training, and certification

Integration and Deployment

Cybersecurity Solutions

Securing your industrial control system in the face of increasing OT-IT convergence, progressively sophisticated cyberattacks, and strict regulations is not easy. Be free to focus on what matters with integrated cybersecurity solutions on Siemens platforms like the RUGGEDCOM APE module – providing the secure foundation you need for digitalization, including:

- Intrusion detection system (IDS)
- IDS + deep packet inspection (DPI)
- Next generation firewall (NGFW)

Key benefits at a glance

- One stop shop for industrial network products and security solutions
- Delivery of a certified and 3rd party tested security software
- Advanced security features with minimum impact on investment

Industrial WLAN

Siemens industrial WLAN enables secure and reliable wireless connections for industrial applications. But even the best wireless network components alone aren't enough to create a state-of-the-art industrial wireless communication network. Expertise in network design and implementation is just as important.

Design and Consulting

Whether implementing a new wireless network or expanding/modernizing, it makes sense to get a clear picture of the current performance of the infrastructure. For this purpose, our experts analyze the following aspects as part of a detailed evaluation:

- Feasibility study
- Use case evaluation
- Analysis of structural environmental conditions
- Radio & infrastructure planning
- Spectrum and topology design
- RF coverage simulation

Key benefits at a glance

- Documented radio channel planning
- Coverage overview and documentation prior to implementation
- End-to-end design from experienced experts
- Assured avoidance of interferences due to planning

Integration and Deployment

We use technical concepts that minimize the risk of malfunctions and outages in your wireless network during deployment, all of which ensures smooth operation and minimal downtime for your plant and network: Preconfiguration service of hardware components

- Configuration and fine-tuning of all WLAN devices
- WLAN client roaming analysis
- WLAN signal strength and latency measurement
- Commissioning report ready-for-handover
- Verification of radio channel planning

Key benefits at a glance

- State-of-the-art technology deployed by experts
- Complete documentation of deployed radio channels
- Advice and support for further frequency optimization
- Smooth operation of the wireless network due to optimized configuration

Industrial Identification

Industrial Identification with RFID (Radio-Frequency Identification) and OID (Optical Frequency Identification) systems are key technologies for a digital enterprise. In the area of identification systems, Siemens offers a comprehensive portfolio that provides the perfect solution – in every sector, and for every area of application. Our employees around the world deliver tailor-made services for your individual challenges – today and in the future.

Design and Consulting

Before starting to implement, expand, or modernize an existing or a new Industrial Identification System, we develop a clear picture of the customer requirements and the actual performance of the current system. For this purpose, our experts analyze the following aspects as part of an evaluation:

- Site surveys
- Use case consulting
- Analysis of operating conditions
- Technical consulting and support
- Confirmation of physical location and environment
- Optimization of performance environment
- Analysis of structural environment conditions
- Defining and documenting the positions and boundary conditions
- Proof of concepts

Key benefits at a glance

- Ensuring proper functionality
- Identification of optimization potentials
- Avoidance of interference
- Reliable identification of products and logistics
- Using the best fit products

Integration and Deployment

Installing and commissioning Industrial Identification Systems with a smoothly integration in production processes requires a high level of experience and expertise. For this purpose, our experts can take over the following tasks:

- Integration of systems into customer applications
- Parallel testing during implementation
- Preparation of default configurations for faster implementation
- Fast and precise on-site implementation

Key benefits at a glance

- Seamless integration into existing systems
- Reducing implementation times on-site, lowering plant downtimes
- High reliability due to optimal installed and commissioned components
- Fast, accurate on-site project implementation utilizing experienced Siemens resources

Industrial Locating

Precision for automation. Driven by data. Real-time locating of relevant assets ensures maximum transparency and opens up brand-new prospects in a wide range of applications. With the knowledge of what is moving where – and when – as well as the ability to visualize these data points, you're able to remove bottlenecks and boost throughput and efficiency.

Design and Consulting

Before starting to implement, expand or modernize a real-time locating system, it is necessary to define the desired use cases and design the most economical solution by taking into account the topography on-site and the technical possibilities. For this purpose, our experienced experts will analyze all aspects for an optimal system design. Our offer includes:

- Detailed planning of infrastructure
- Feasibility studies
- Use-case consulting and specification
- Site surveys
- Proof of concepts (POCs)

Key benefits at a glance

- Detailed report on regarding on-site operating conditions
- Coverage overview and documentation prior to implementation
- Analysis of solution approaches to achieve optimum localization results and security of investment
- Optimal preconditions for project execution

Integration and Deployment

Having laid a solid foundation based on consultation, conceptualization, and proof of concept, we are now perfectly primed to take the next step – the implementation and integration of your SIMATIC Real Time Locating System:

- Installation and commissioning of hardware and software
- Setup of RTLS radio network
- Optimization of locating feature
- Integration into customer system
- Functional testing

Key benefits at a glance

- Project execution by experienced experts
- Minimized project execution time
- Optimized system performance
- Seamlessly integrated system
- Detailed report about the system quality

Service and Support

With Siemens, the journey doesn't end with implementation. We will continue to work with you over the entire lifecycle of your system with long-term maintenance and support:

- On-site and remote support
- Troubleshooting
- Health checks, on-site inspections
- Analytics and artificial intelligence services
- Help desk
- Optimization
- Updates and modernizations
- Implementing changes
- Repair and replacement of devices

Key benefits at a glance

- Maximum availability of the system
- Flexibility for changes in production & logistic processes
- Quick solutions for issues
- Transparency about system status
- Suggestions for optimization
- Support from experienced experts
- State-of-the-art systems

Training Services

Implementing, maintaining, and operating technological systems can be quite challenging and requires a high level of specific know-how. Therefore, it is beneficial to build up in-house system and technological expertise. Siemens will support you when it comes to trainings:

- Customized trainings for your employees based on your specific challenges and requirements
- Certification training program to become a “Siemens Certified Professional” or “Siemens Certified Expert”
- Technology foundation trainings
- Trainings are available at customer locations, Siemens locations, and online
- On-site instruction for customer systems
- Customer-specific trainings for key users and technical personnel

Key benefits at a glance

- Gain deep technological and systems knowledge for key users, dev-ops personnel, company technicians, and maintenance staff
- Enable partners to design and implement Siemens solutions independently
- Allow employees to perform services independently, and in doing so, reduce cost and downtime
- Ensure extensive knowledge for optimal operation of the installed systems
- Enrich staff with specialist expertise and ability to enable ad-hoc in-house optimizations
- Get certified knowledge to prove participant’s level of expertise

Training Services

Industrial Networks Training – Certification Program

In our Industrial Networks Training courses, you will learn to plan, implement and connect wired and wireless data networks to a corporate network. In addition, you will be trained to secure, diagnose and optimize communication networks. The course offering includes specific content for beginners, professionals and experts. Each certificate documents tested network skills as part of the overall Siemens industrial networking training program.

	Wired Networks	Wireless Networks	Security	Network Management
Siemens Certified Expert	Diagnostics and Optimization of Industrial Networks with SCALANCE	Diagnostics and Optimization of Industrial Wireless LAN	Remote Communication in Industrial Networks	
	Advanced Switching and Routing in Industrial Networks with RUGGEDCOM			
Siemens Certified Professional	Switching and Routing in Industrial Networks with SCALANCE	Wireless LAN in Industrial Networks	Security in Industrial Networks with SCALANCE	Network Monitoring and Configuration SINEC NMS with SCALANCE
	Diagnostics and Optimization of Industrial Networks with RUGGEDCOM	WiMAX in Industrial Networks	Security in Industrial Networks with RUGGEDCOM	Network Monitoring and Configuration SINEC NMS with RUGGEDCOM
Initial Trainings	Ethernet Fundamentals in Industrial Networks (optional)			
	Web-based Training; Data Communication with Industrial Ethernet (optional)			

Training Services

Training for Industrial Identification and Locating

Our Industrial Identification and Locating training program offers you a wide range of targeted training courses providing you with valuable insights and knowledge on the topic. After the training course there is an option of taking a certification test to become a “Siemens Certified Professional for Industrial Identification and Locating” – proving expertise for current and future challenges.

In our training courses employees will gain valuable knowledge on the following technologies: RFID, Optical Identification and Real-Time Locating. Furthermore, they will learn how to efficiently plan and implement high-performance industrial identification solutions.

	RFID	OID	RTLS
Siemens Certified Professional	RFID-UHF Technology and Practice (ID-UHF-TP)	Optical Identification Technology and Practice (ID-OID-TP)	RTLS Technology and Practice (ID-RTLS-TP)
Initial Web-based Trainings	Industrial Identification (for RFID and OID)		SIMATIC RTLS

How to get in contact

Ready for taking the next step?

Then contact our

[Industrial Identification
and Locating experts](#)

[Industrial Network
experts](#)



For requests specific to the “Services and Support” offering, reach out to your [local Customer Service contact](#).

Or simply get in touch with your local Siemens sales representative.

