As Industry 4.0 takes hold, are you prepared to be your customers’ IT/OT consultant?

se.com/edge
The Industry 4.0 challenge — and opportunity

In the commercial and industrial space, talk of Industry 4.0 is nearly inescapable, and for good reason. The application of Industry 4.0 technology — artificial intelligence, robotics, digital twins — can help companies more effectively gather and analyze data, enabling more agile, efficient processes that help them increase quality and productivity while reducing costs.

But Industry 4.0 involves implementing significant amounts of new technologies that require edge computing, meaning compute power close to the users or things that need them. And if these edge systems are not deployed and maintained properly, it can result in downtime for the entire business operation — throwing a wrench into the expected return on investment from industrial transformation projects.

The industrial system integrator opportunity

As an industrial system integrator, you can play an integral role in Industry 4.0 projects by helping customers choose and implement software and hardware solutions that are well-suited for their Industrial Internet of Things (IIoT) applications. Schneider Electric makes it easy for you to capitalize on this opportunity. Through our unmatched IoT portfolio, edge certification path, reference designs, and access to our global network of IT Solution Providers, you’ll have the baseline you need to grow your business and become your customers’ IT/OT consultant.

75.4B connected devices globally by 2025

75% of enterprise data is expected to be created and processed at the edge by 2025

$232B will be spent by enterprises on artificial intelligence, machine learning, and robotic process automation technologies by 2025

72% of companies implementing industrial transformation projects are still in the definitional or pilot phase, and of this, 13% are “stuck” in the pilot phase with no real results to show

The industrial system integrator opportunity

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1 APC — “Edge Computing: Supporting Your Digital Transformation,” May 2020
2 IHS Markit — “IoT platforms: enabling the Internet of Things,” March 2016
4 KPMG — “Ready, set, fail? Avoiding setbacks in the intelligent automation race,” July 2018
5 LNS Research — “Industrial Transformation (IX): Four Organizational Disconnects That Hinder Momentum,” May 2019
Industrial edge solutions — deployments made simple, reliable, and secure

Implementing effective industrial edge computing solutions requires several components all working in concert. Core hardware and software applications, physical and cyber security, and remote monitoring and maintenance solutions come together to ensure everything stays up and running 24/7.

With over four decades of experience delivering solutions that meet IT/OT requirements, Schneider Electric provides complete, pre-integrated industrial edge computing solutions that industrial system integrators can quickly deploy and easily manage at customer sites. Working with our network of leading technology partners and AVEVA, we have ensured that our pre-integrated solutions are designed to run industry-standard software.

**EcoStruxure™ Micro Data Center solutions**

From low-profile, wall-mount to larger, floor-standing enclosures complete with cooling, EcoStruxure Micro Data Center solutions offer a fast, easy way to build and deploy edge computing infrastructure in any environment. Features include:

- Pre-assembled, pre-tested enclosed rack systems including IT equipment, physical infrastructure, and management software
- Standardized, pre-integrated designs enabling speedy, reliable deployments
- Security cameras, environmental sensors, and access controls to prevent malfunctions and provide visibility into potential security breaches

**EcoStruxure IT software and services**

Managing edge computing sites is critical to ensuring business continuity, requiring around-the-clock monitoring and proactive maintenance to detect and correct issues before they occur.

EcoStruxure IT software and services enable users to mitigate and anticipate risk of failure of critical IT infrastructure while reducing operational expenses through an open, vendor-agnostic platform.

Our global footprint and domain expertise in IT infrastructure provide users visibility, insights, 24/7 expert remote monitoring, and on-site support.

With EcoStruxure IT software and services, you can provide customers around the globe with peace of mind as you help them take advantage of everything Industry 4.0 has to offer.
Pre-approved reference designs — reduce time to market

No one company can deliver all the components that comprise a fully functional edge computing solution. That’s why Schneider Electric has cultivated relationships with the most respected global brands of IT compute, storage, and network equipment to develop a network of partners that can deliver reliable, long-term solutions.

We’ve also worked hard to pre-configure complete solutions that are ready to implement — so you can have peace of mind that all the components will work together as intended.

Our pre-configured reference designs can ...

- save you up to 40%* in field engineering costs
- get systems to market 20%* faster
- reduce maintenance costs by 7%*

... meaning the customer gets a faster time to value.1 Everybody wins.

1 Based on previous data, 2019. This is not a guarantee of future performance or performance in your particular circumstances.

What are reference designs?

Reference designs are configurations of hardware, software, networking, and storage components approved by their respective manufacturers to work together. These can even be customized to a client’s specific installation needs.

Schneider Electric worked with AVEVA, the market leader in industrial automation software, to understand the requirements for small, medium, and large installations. We then worked with our IT technology partners to define the best compute, network, and storage equipment to support each set of requirements.

The result? Comprehensive, approved reference designs that can be implemented in our EcoStruxure Micro Data Center enclosures, complete with supporting electrical and (if needed) cooling systems. The entire system can be monitored and managed by EcoStruxure IT software and services, ensuring ongoing reliability and uptime.

1 World Wide Technology — “Your Digital Transformation is Only as Good as Your Supply Chain,” June 2019
2 Stands for “inputs/outputs”
Based on HPE ProLiant technology

With its deep experience in the enterprise data center market, HPE® understands what it takes to create effective edge data centers. Now, HPE has teamed with Schneider Electric to provide edge computing solutions with certified interoperability, dramatically streamlining the process of deploying EcoStruxure Micro Data Center solutions that rely on hyperconverged infrastructure (HCI).

EcoStruxure Micro Data Center solutions sit close to applications to ensure low latency and high performance from IIoT and other applications while offering protection for IT equipment in edge installations that must coexist in non-IT environments.

HPE and Schneider Electric integrated edge computing solutions are highly scalable and able to easily adapt computing capacity and infrastructure to increasing volumes of data. They also put a premium on security, both in terms of the physical IT infrastructure and in helping to prevent intrusions from IIoT devices.

HPE and Schneider Electric have worked together to deliver standardized infrastructure optimized to run applications based on AVEVA™ System Platform, fulfilling requirements for:

- Continuous streaming of near-real-time data from multiple sources
- Persistent workloads
- High CPU clock speeds
- Mostly low disk capacity requirements, but benefits from high IOPs disk throughput
- Data latency from real world to screen: 1 – 2 seconds
- Recovery point objective: configurable from less than 1 second to 15 minutes
- Data loss objective: configurable from 0 – 60 seconds

And, Schneider Electric’s EcoStruxure IT software and services allow for remote management, reducing the need for and cost of on-site IT support staff.

Designed in collaboration with:

AVEVA

Hewlett Packard Enterprise
Specifications

HPE and Schneider Electric reference design for industrial edge

- Purpose-built and pre-validated solution for HPE ProLiant
- Pre-validated edge solution for AVEVA System Platform applications
- Optimized for applications with 5,000 to 100,000 data points
- Secure, comprehensive infrastructure

Features and benefits:

- HPE ProLiant DL360 Gen10 server supports industry-standard technology leveraging the Intel® Xeon Scalable processor with up to 28 cores, 12G SAS and 3.0 TB of 2933 MT/s HPE DDR4 SmartMemory
- HPE ProLiant DL360 Gen10 server comes with services offered by HPE Pointnext to accelerate digital transformation, increase agility and stability, and reduce risk
- Unmatched expandability packed in a dense 1U rack design with up to three PCIe 3.0 slots
- HPE ILO 5, the world’s most secure industry standard servers with HPE silicon root of trust technology to protect against attacks
- Network of global partners to deliver products, applications, and solutions that work together seamlessly to meet the needs of industrial edge computing applications

The solutions follow reference designs engineered and tested with Schneider Electric IT Alliance Partners and aligned with AVEVA System Platform. You save engineering time and reduce risk while delivering a complete, self-contained, secure, optimized, and highly energy-efficient IT solution.

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<td>UPS</td>
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<td>APC™ Smart-UPS 1500VA LCD RM 2U 230V with Network Card</td>
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<tr>
<td>HPE</td>
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<td>HPE ProLiant DL360 Gen10</td>
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*Required for NBPD0165
When it comes to server technology, Lenovo™ offers enterprise roots that run deep. Now, Lenovo is partnering with Schneider Electric to deliver complete EcoStruxure Micro Data Center solutions to support edge data centers.

EcoStruxure Micro Data Center solutions sit close to applications to ensure low latency and high performance from IIoT and other applications while offering protection for IT equipment in edge computing installations that must co-exist in non-IT environments. Constant condition monitoring helps ensure optimal performance for all IT equipment and applications. Lower latency means users who depend on IIoT applications get the data they want and need faster and more reliably.

The solutions are also highly scalable, and able to adapt as business requirements change. They also put a premium on security, both in terms of the physical IT infrastructure and in helping to prevent intrusions from IIoT devices.

Schneider Electric has worked closely with Lenovo to develop standard edge computing reference designs, so companies can roll out EcoStruxure Micro Data Center solutions quickly without sacrificing reliability or performance. Each solution is:

- Purpose-built and pre-validated for Lenovo ThinkSystem
- Pre-validated for AVEVA System Platform applications
- Optimized for applications with 5,000 – 100,000 data points
- Based on secure, comprehensive infrastructure

Design in collaboration with:

![AVEVA](image1)

![Lenovo](image2)
INDUSTRIAL EDGE COMPUTING REFERENCE DESIGN

Specifications

Lenovo SR250 server

- Lenovo ThinkSystem SR250 is an affordable, single-socket 1U rack server for applications that need optimized performance and flexibility for future growth, along with enterprise-class reliability, management, and security
- The SR250 server offers a wide range of processors — from Intel Celeron to Intel Xeon E Series
- Supports memory capacity of up to 64 GB and internal storage of up to 32 TB

Complete EcoStruxure Micro Data Center solutions

Along with Lenovo and other global partners, Schneider Electric has developed products, applications, and solutions that work together seamlessly. Our reference designs are engineered and tested with our IT Alliance Partners, including Lenovo, and designed in collaboration with AVEVA.

The solution is optimized for AVEVA System Platform applications that have a requirement for:
- Continuous streaming of near-real-time data from multiple sources
- Persistent workloads
- High CPU clock speeds
- Mostly low disk capacity requirements, but benefits from high IOPs disk throughput
- Data latency from real-world to screen: 1 – 2 seconds
- Recovery point objective: configurable from less than 1 second to 15 minutes
- Data loss objective: configurable from 0 – 60 seconds

Schneider Electric provides all required data center physical infrastructure and remote management software in a single self-contained, secure enclosure for converged and hyperconverged architectures. You save engineering time and reduce risk while delivering a complete, optimized, highly energy-efficient IT solution.

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<td>Lenovo</td>
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<td>Lenovo ThinkSystem SR250 or SR530</td>
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*Required for NBRPD0165
Based on Stratus ftServer technology

The EcoStruxure Micro Data Center with Stratus ftServer allows operations teams to move data acquisition and processing to the factory floor while dramatically consolidating industrial software workloads.

The jointly developed solution is tested and validated to provide Stratus’ continuous availability and Schneider Electric’s uninterrupted power in an enclosed rack that is purpose-built for the rigors of an industrial operational technology (OT) environment.

The micro data center includes key features for the industrial edge computing locations such as built-in security camera, and fluid, vibration, and smoke sensors.

This ‘data center-in-a-box’ allows for deployment in locations where traditional data centers do not fit, such as factories or facilities running edge computing applications.

Designed in collaboration with:
Specifications

Stratus ftServer and Schneider Electric

Stratus ftServer provides greater than 99.999% uptime, making continuous availability a reality even at the network edge. Schneider Electric worked closely with Stratus to create a purpose-built, pre-integrated edge computing solution combining the Stratus ftServer with Schneider Electric’s EcoStruxure Micro Data Center enclosures and supporting infrastructure. The units can come with AVEVA software pre-installed and ready to run. The result is an integrated, continuously available, and downtime proof platform that’s easy to deploy, manage, and service.

Stratus ftServer features and benefits

- Greater than 99.999% availability
- Automated Uptime Layer features multi-path I/O failover to prevent lost transactions and data loss or corruption
- Industry-standard components: x86 processors, memory DIMMs, SSDs, and HDDs
- Active service architecture: self-monitoring, self-diagnosing system simplifies systems management
- Single system with redundant hardware presented as a single system — only one OS or application license required
- Hot-swappable customer replaceable subsystems and components

Complete edge solutions

Schneider Electric provides all required data center physical infrastructure and remote management software in a single self-contained, secure enclosure for converged and hyperconverged architectures. You save engineering time and reduce risk while delivering a complete, optimized, highly energy-efficient IT solution.

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Based on Dell EMC PowerEdge technology

Dell Technologies™ knows what it takes to deliver effective IT solutions for any environment, including the industrial edge. Now, Dell is teaming up with Schneider Electric™ to provide edge computing offers for Industrial Internet of Things (IIoT) applications. These solutions come with certified interoperability, dramatically streamlining the process of deploying EcoStruxure™ Micro Data Center solutions that rely on hyperconverged infrastructure.

Why EcoStruxure Micro Data Center Solutions?

• Provide low latency and high performance sitting close to applications while offering protection for IT equipment in edge installations, including in harsh industrial environments.
• Offer highly scalable and easy to adapt computing capacity and infrastructure to handle increasing volumes of data.
• Improve security for the physical IT infrastructure and help to prevent intrusions from IIoT devices.

Standardized Infrastructure for Integrated Operability

Dell and Schneider Electric deliver together a standardized infrastructure optimized to run applications based on AVEVA™ System Platform, fulfilling requirements for:

• Continuous streaming of near-real-time data from multiple sources
• Persistent workloads
• High CPU clock speeds
• Mostly low disk capacity requirements, but benefits from high IOPs disk throughput
• Data latency from real world to screen: 1 – 2 seconds
• Recovery point objective: configurable from less than 1 second to 15 minutes
• Data loss objective: configurable from 0 – 60 seconds

Schneider Electric’s EcoStruxure IT software and services also allow for 24/7 remote management of IT infrastructure, reducing the need and cost for on-site support staff.
INDUSTRIAL EDGE COMPUTING REFERENCE DESIGN

Specifications

Dell Technologies and Schneider Electric reference design solutions for industrial edge

• Purpose built and pre-validated for Dell PowerEdge XR11 and XR12 servers
• Pre-validated edge for AVEVA System Platform applications
• Secure, comprehensive infrastructure

Features and benefits:

• The Dell EMC PowerEdge XR11 and XR12 are new short-depth rugged servers designed and engineered to deliver powerful performance outside the data center and in harsh environments. They are purpose-built for extended system operating temperatures from -5°C to 55°C (23°F to 131°F). An optional filter protects industry environments.

• The PowerEdge XR11 and XR12 are short-depth accelerator-ready systems. MIL-STD certified, resist Dust & Shocks up to 40G. Mountable where you need them. Driving insights and intelligence closer to the creation point of your data.

• Both models are designed as mountable single-socket rack servers. For maximum flexibility, the XR11 comes in a dense 1U form factor, while the XR12 is available as a 2U.

• Supports demanding edge applications such as streaming analytics, manufacturing logistics, 5G cell processing applications, and more. The XR11 supports up to two GPUs as standard while the XR12 is designed to handle three.

• Quick and easy serviceability with cold aisle, front-accessible I/O & Power — crucial for harsh environments.

• The XR11 and XR12, like all PowerEdge servers, are designed with a cyber-resilient architecture, with security integrated deeply into every phase in the server lifecycle, from design to retirement.

• Save engineering time and reduce risk while delivering a complete, self-contained, secure, optimized, and highly energy-efficient IT solution.

EcoStruxure Micro Data Center solutions follow reference designs engineered and validated with Schneider Electric IT Alliance Partners and aligned with AVEVA System Platform.

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*Required for NBPD0165
Integrated ecosystem of partners — mitigate your risk

Implementing IIoT applications requires effective edge computing solutions, thoughtfully integrated from multiple vendors, to deliver on the industrial transformation promise.

With Schneider Electric, you get access to the most recognized portfolio of critical infrastructure in the market, with over four decades of experience delivering IT/OT solutions, as well as our global network of industry-leading IT technology partners and industrial automation software providers.

We’re making it easy for you to connect with the right experts

System integrators who want to partner with an IT technology partner can access Schneider Electric’s established network of IT solution providers that collectively offer all the hardware, software, and expertise required to build reliable edge computing solutions. We’re empowering industrial system integrators to take advantage of this network through the Schneider Electric Exchange platform.

We have built a dedicated Industrial Edge Computing community in Exchange where you can easily collaborate with subject matter experts and locate trusted IT solution providers.

With our integrated ecosystem of partners, industrial system integrators are in a great position to be the single point of contact to help implement turnkey solutions for their customers.
As an industrial systems integrator, how can you show customers you have the core competencies to plan, implement and manage their edge computing deployments? If they are going to entrust you with complex edge projects that will shape the future of their businesses, customers want assurances you have the right expertise and skills.

The answer is to get certified. And Schneider Electric can help you with that.

The Industrial Edge Computing certification for system integrators validates your proficiency in edge computing deployments and integrations through a three-hour online course culminating with an exam. Open to all industrial system integrators who register with the mySchneider Personalized Experience, the certification’s curriculum covers two primary areas:

- Instruction on IT demands in the industrial space, how edge computing meets those demands, and how to scope out solutions for customers.
- An introduction to Schneider Electric edge solutions and services, and to reference designs developed jointly with select partners

Rapid learning

The Industrial Edge Computing certification is designed for quick learning, requiring a modest time commitment of three to four hours of online instruction. The instruction is self-guided and you can complete it at any time.

Should you do the entire curriculum all at once? Or take one course at a time? It’s up to you and whatever fits your schedule.

System Integrator Benefits

The certification delivers these benefits to industrial system integrators:

- Register as a Cisco Technology Solution Integrator and leverage the vendor’s support and financing options
- Integrate Cisco products, software, and services into your customized edge solutions
- Gain direct access to Schneider Electric’s Local Edge Configurator through mySchneider
- Access industrial edge computing reference designs of pre-configured, pre-tested and pre-validated complete solutions
- Qualify for extra discounts based on sales opportunity value

Certifications provide a badge of expertise for industrial system integrators. When customers see you have earned the Schneider Industrial Edge Computing certification, they will know their project is in good hands.

*Access to the Industrial Edge Computing certification is available to registered industrial system integrators in the mySchneider portal. If you are currently not registered in the portal or have questions on accessing the program, please contact your local Schneider Electric sales representative for assistance.
How to get started

1. Become an Alliance Partner
Join our System Integrator focused Alliance Partner Program. What's in it for you? Grow your business and revenue, access key partners in your ecosystem, and explore practical information and resources to enable your success.

Register today

2. Expand your knowledge
To fully understand and align your skills to the new IT demands in the industrial space, access our learning path. There, you can explore the underlying drivers behind edge computing solutions and what challenges and strategies you need to consider when specifying solutions for your customers.

You will also learn how you can take advantage of our fully customizable, pre-integrated edge computing solutions, user-friendly design tools, and industry-leading edge management platform.

Access the learning path

3. Access Industrial Edge Computing certification for system integrators
If you are an industrial system integrator who doesn't need to partner with an IT solution provider and are ready to grow your edge computing offerings, enroll in the Industrial Edge Computing certification for system integrators. This certification will equip you with knowledge and resources to successfully scope and implement edge computing solutions.

Register for certification

4. Engage with a trusted IT Solution Provider
If you are an industrial system integrator who wants to partner with an IT solution provider, you can access Schneider Electric's industrial edge community in Exchange with a matchmaking feature where you can easily identify and collaborate with edge-certified IT Solution Providers.

Our global network of highly skilled and experienced IT Solution Providers gives you access to a comprehensive portfolio of fully customizable, pre-integrated edge computing solutions at the most competitive prices.

Connect now through Exchange