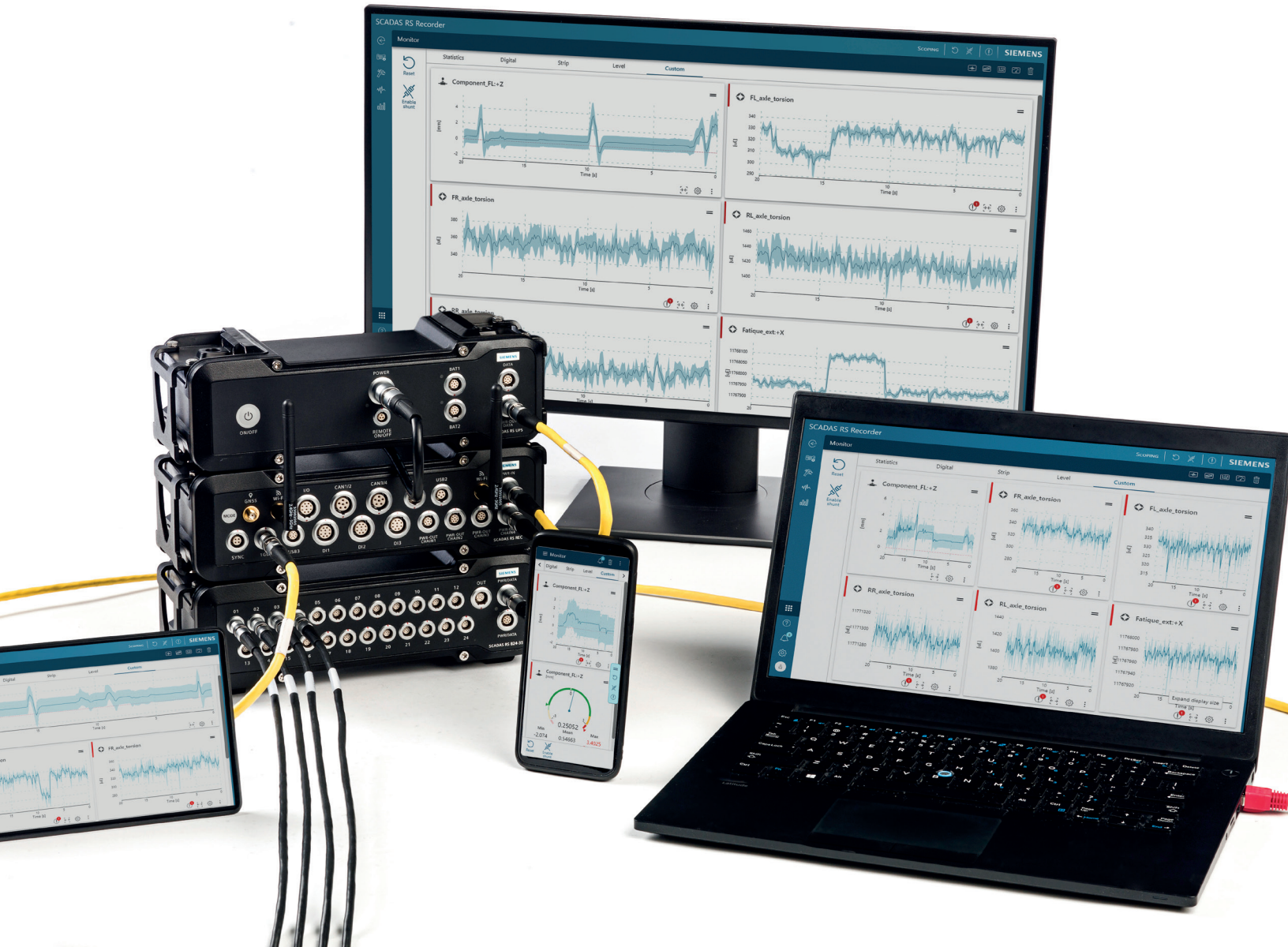
SIEMENS

DIGITAL INDUSTRIES SOFTWARE

Simcenter SCADAS RS

Providing rugged precision for faster and smarter testing anywhere

siemens.com/simcenter



Solution benefits

- Faster setup and validation accelerate time-to-market
- One central device for all measurements means fewer devices and less wiring
- Precise synchronization ensures reliable results
- Remote access and integrated workflows keep everyone aligned
- Ready for electrification, automation and Digital Twin integration

Modern engineering requires data acquisition systems that match the toughness and versatility of the environments they operate in. Simcenter™ SCADAS™ RS hardware from Siemens delivers exactly that, a rugged, modular, and high-precision data acquisition system built for multi-physics testing in the most demanding conditions.

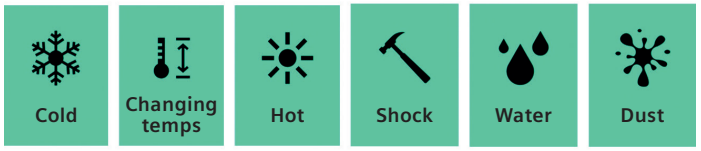
From electric vehicles (EVs) and aircraft to trains, heavy machinery, wind turbines and infrastructure, Simcenter SCADAS RS, which is part of the Siemens Xcelerator business platform of software, hardware and services, enables you to capture, synchronize and analyze critical data anywhere anytime.

Its built-in browser-based Simcenter SCADAS RS Recorder app lets you configure, monitor and manage tests remotely from any device. Consequently, no software installation is needed during measurements. Later, seamless integration with Simcenter Testlab™ software provides a smooth workflow from data acquisition to advanced analysis and Digital Twin validation, accelerating your journey from raw measurements to actionable engineering insights.

You can use Simcenter SCADAS RS to unlock faster development cycles, greater accuracy and reduced costs.

Using Simcenter SCADAS RS to overcome testing challenges

Modern product development faces increasing complexity: electrification, lightweight materials and stringent durability requirements demand accurate, real-world data. Yet, customers encounter significant obstacles during physical testing. Simcenter SCADAS RS is engineered to eliminate these pain points and accelerate innovation.



Harsh and extreme testing environments

Challenge: Field tests often occur in extreme conditions like dust, mud, vibration and temperature fluctuations that compromise conventional data acquisition systems.

Solution: Using Simcenter SCADAS RS delivers rugged reliability with ingress protection (IP)66/67, shock resistance and a wide operating temperature range, delivering uninterrupted data capture in the toughest environments.

Multi-physics complexity

Challenge: Capturing vibration, strain, temperature, pressure, CAN bus, global positioning system (GPS) and video typically require multiple devices, increasing wiring complexity and risk of errors.

Solution: With universal signal conditioning and modular architecture, Simcenter SCADAS RS can be used to consolidate all measurements into one synchronized system, reducing hardware footprint and improving accuracy.

Remote access limitations

Challenge: Proving grounds and off-road locations make manual intervention costly and time-consuming.

Solution: Embedded Simcenter SCADAS RS Recorder app and wireless connectivity enable remote configuration, monitoring and data retrieval, with no software installation required to perform measurements, saving time and resources.

Tight schedules and high costs

Challenge: Shorter development cycles and budget constraints demand faster, more efficient testing workflows. Currently, field testing often requires large teams, multiple devices and significant logistical effort, driving up costs and complexity.

Solution: Intelligent triggers, autonomous operation and seamless integration with Simcenter Testlab automate data handling and validation, reducing setup time and accelerating decision-making.

Varying channel count requirements

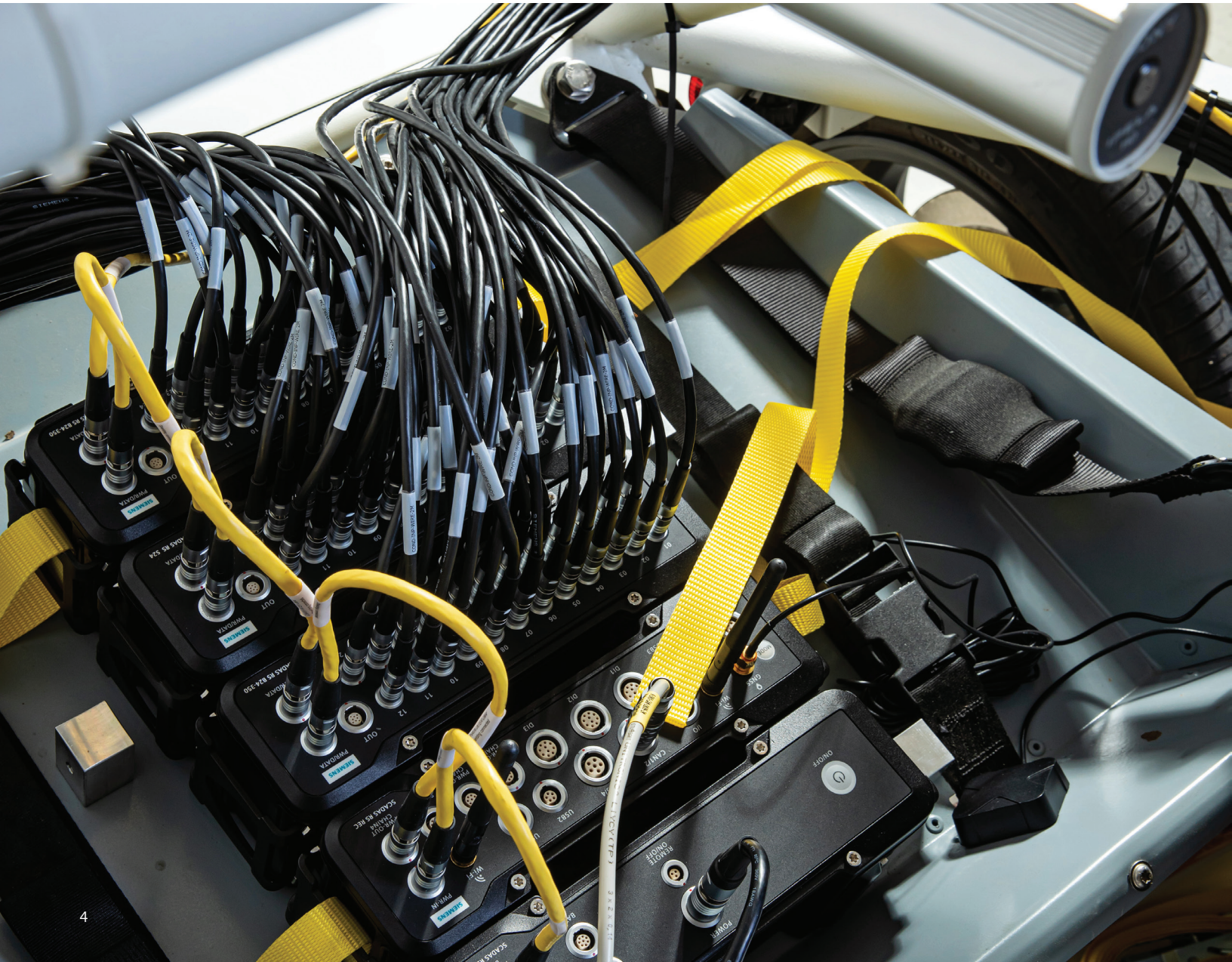
Challenge: Testing needs can range from a handful of sensors to thousands of channels. Traditional systems often lack scalability, forcing customers to invest in multiple platforms or compromise on data quality.

Solution: Simcenter SCADAS RS offers modular scalability, supporting anywhere from 12 to more than 1,000 channels in a single synchronized system. This flexibility eliminates the need for separate setups and provides consistent workflows across all test sizes.

Digitalization and data integrity

Challenge: Legacy systems struggle to support Digital Twin workflows, limiting predictive capabilities and design optimization.

Solution: Using Simcenter SCADAS RS delivers traceable, high-quality data for simulation correlation and closed-loop validation, enabling a true digital transformation in testing.



Data acquisition without limits

Simcenter SCADAS RS redefines testing freedom

It's not just a data acquisition system – it's a platform designed for the future of engineering. Leveraging Simcenter SCADAS RS empowers teams to capture accurate, synchronized data anywhere under any conditions, and prepare for tomorrow's challenges.

What you'll discover

Superior measurement performance: Achieve unmatched accuracy and reliability for every signal type.

Extreme flexibility: Scale from small setups to thousands of channels with little complexity.

Ruggedness for the real world: Test confidently in harsh environments – dust, vibration and extreme temperatures.

Unparalleled connectivity and remote access: Configure, monitor, and share data from anywhere anytime.

Why it matters

Customers expect machines and vehicles to deliver absolute reliability under harsh or extreme conditions. Downtime means lost productivity and high costs. Simcenter SCADAS RS is your end-to-end solution for fast, cost-effective testing in any environment.

Smart and connected

Onboard intelligence: Local storage and embedded Simcenter SCADAS RS Recorder App for sensor setup, data processing and monitoring.

Remote accessibility: Wireless and cellular connectivity for multiuser access from any device.

Automation: Intelligent features for measurement control and data offloading.

Superior measurement performance

Why measurement performance matters

Accurate and reliable measurements are critical for making the right design decisions. Whether validating a new vehicle architecture, optimizing energy efficiency or troubleshooting complex systems, poor data quality can lead to costly errors and delays. With Simcenter SCADAS RS, engineers can trust their data across any test scenario, from noise, vibration and harshness (NVH) and structural analysis to thermal and electrical validation.

Comprehensive multi-physics capability

Capture synchronized data from:

- Strain gauges, accelerometers, displacement sensors, force cells, thermocouples
- Wheel force transducers, pressure sensors, GNSS location
- Digital bus data (CAN, XCP, OBD2, SAE J1939) and even video streams
- Additional sources across multiple domains for complete coverage

All delivered through a single modular system — powered by Simcenter Testlab and enhanced with a user-friendly Simcenter SCADAS RS Recorder App — streamlining workflows, reducing complexity, and replacing multiple independent measurement devices.

Precision and reliability

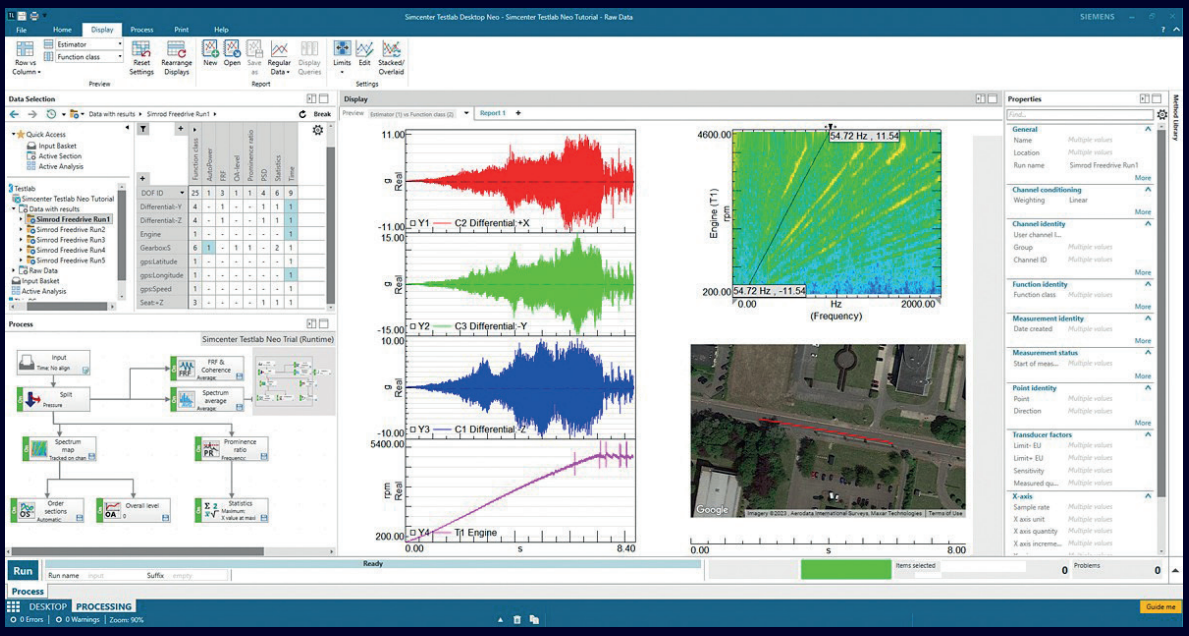
Universal signal conditioning: Low noise, minimal drift and high dynamic range across the full temperature range.

Extended bandwidth: U12-E and S12-E units provide alias-free bandwidth up to 22.1 kHz for high-frequency measurements.

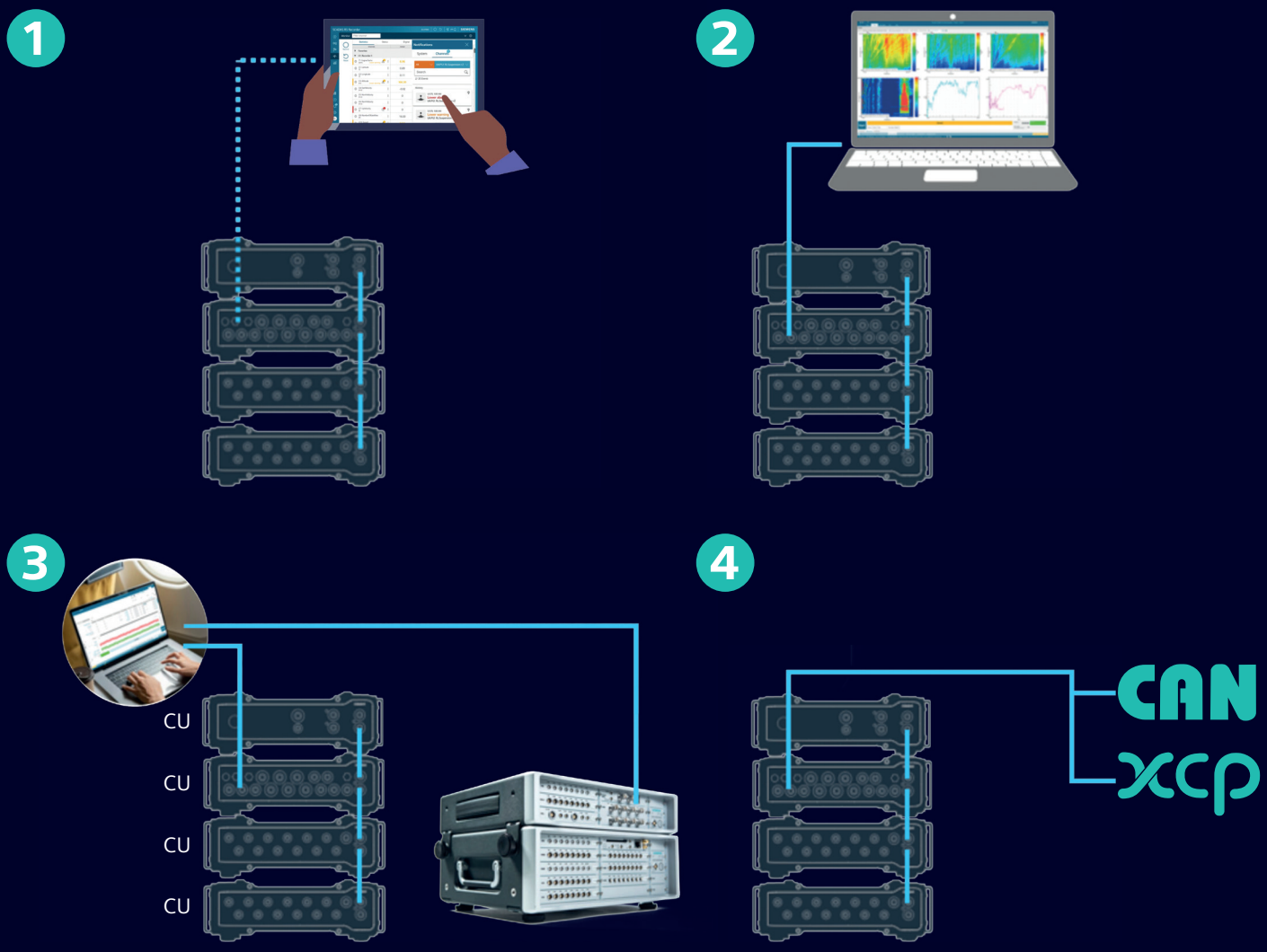
High-density units: TC20 for thermocouples, B24 and S24 for large channel counts, ideal for complex multi-domain tests.

Integrated design for uninterrupted performance

Simcenter SCADAS RS brings all critical elements together in one robust system: data acquisition, smart power backup and advanced signal conditioning.



Simcenter Testlab: In-depth processing of analog and digital data acquired by Simcenter SCADAS RS.



This integration guarantees uninterrupted measurements, precise synchronization and effortless connectivity, even in demanding environments. This means engineers can focus on insights, not setup complexity.

Scalable and connected

1. **Build the right configuration for any application** – From small prototypes to full-scale machines – with more than 1,000 synchronized channels and nanosecond-level accuracy.

2. **Seamless integration with Simcenter Testlab** for streamlined workflows from acquisition to final analysis.

3. **Combine Simcenter SCADAS RS conditioning units with Simcenter SCADAS Mobile, Simcenter SCADAS Recorder and Simcenter SCADAS Lab systems** for flexible setups, expanded channel counts and future-proof upgrades. No Simcenter SCADAS RS Recorder unit needed unless standalone acquisition or extra connectivity is required.

4. **Openness to third-party systems** through CAN or XCP-over-Ethernet. Access all measured data in a Simcenter SCADAS RS Recorder App for quick checks and analysis or leverage Simcenter Testlab for in-depth insights.

Providing maximum flexibility - modular architecture for any test scenario

Why flexibility matters

Machines, structures and vehicles come in different sizes and architectures, often in multiple design variations. Critical failure points can be widely dispersed, requiring a high number of sensors for proper physical testing. Engineers face challenges in matching data acquisition systems to these diverse needs without adding complexity, weight or risk of interference.

Modular and scalable design

Simcenter SCADAS RS addresses these challenges with a fully modular architecture that adapts to any test campaign:

Small, lightweight units

Each unit weighs around 2 kilograms (kg), making it easy to distribute across the test object or stack using a robust slide-and-latch mechanism with no tools required. Side clamps allow secure mounting with strap belts, and multiple mounting options provide flexibility in any environment.

Three-unit types

Recorder unit: Provide a central hub for data aggregation, synchronization and network connectivity

Power unit: Smart, secure and uninterruptable power supply, capable of feeding multiple conditioning units

"

The compact size of Simcenter SCADAS RS made it much easier to fix it into the vehicle and connect all the sensor cables than with other solutions."

Jongwoo Kim, Technology Part Manager,
Hyundai Motor Company

Data conditioning units: Available in various versions for strain gauges, accelerometers, thermocouples, voltages, currents and more

Distributed setup with fewer cables, less weight and more flexibility

By deploying distributed units across the system under test and transferring both data and power through a single cable, Simcenter SCADAS RS minimizes cabling complexity and reduces overall instrumentation weight and installation time. This streamlined approach simplifies installation, enhances signal integrity and makes the system ideal for space-constrained test objects.

Practical advantages

Reduced cabling and interference: Shorter and less cables mean lower magnetic interference, less noise pickup and easier maintenance.

Lower instrumentation weight: Ideal for prototypes and lightweight structures.

Faster setup and maintenance: Simplified mounting and fewer tedious cable fixations save time in the field.

Scalable for any test: From small prototypes to full-size vehicles, structures or machinery, Simcenter SCADAS RS grows with your needs.

With its modular and scalable design, Simcenter SCADAS RS enables engineers to capture more than 1,000 synchronized channels in one recording, streamlining even the most complex test campaigns.

Simcenter SCADAS RS unit overview

Recording unit

Simcenter SCADAS RS REC: Recorder Unit

The Simcenter SCADAS RS Recorder unit serves as the central hub for data acquisition, collecting information from multiple conditioning units while providing seamless wired and wireless connectivity. In addition, the REC unit features onboard recording capabilities with a high-capacity solid state drive (SSD) and includes the embedded Simcenter SCADAS RS Recorder App, allowing the hardware to operate completely standalone without requiring any additional software. When needed, the REC unit can be combined with multiple recorder units together or even integrated with other Simcenter systems such as Simcenter SCADAS Mobile, Simcenter SCADAS Recorder or Simcenter SCADAS Lab systems configurations, delivering precise synchronization for large-scale, distributed test campaigns. It collects data from four daisy chains of conditioning units, connects to networks either wired or wireless and synchronizes with other REC units. It integrates advanced communication protocols such as XCP-on-Ethernet for automotive-grade integration, while also handling several CAN buses, multiple digital encoders and offering a connector for a Global Navigation Satellite System (GNSS) antenna to guarantee accurate positioning and time synchronization in complex testing environments.

Power unit

Simcenter SCADAS RS UPS: Uninterruptable Power Supply unit

The Simcenter SCADAS RS Uninterruptable Power Supply unit delivers stable backup power to daisy-chained Simcenter SCADAS RS units using a wide-range DC input or a pair of hot-swappable batteries. It can be activated either by a physical button or through a remote on/off voltage signal.

Data conditioning units

Simcenter SCADAS RS U12 / U12-E: Universal unit

The Simcenter SCADAS RS U12 unit integrates a wide range of universal signal conditioning for 12 channels into a single compact unit. It supports piezoelectric ICP sensors, high-voltage inputs, externally powered sensors and various bridge configurations, full, half and quarter, using selectable sense lines. Additionally, it accommodates piezo-resistive sensors, potentiometers, inductive sensors such as linear variable differential transformer (LVDT) and rotary variable differential transformer (RVDT), resistance temperature detector (RTD) sensors, current loop sensors via shunt and analog tachometers based on variable reluctance with high voltage tolerance.

The Simcenter SCADAS RS U12-E unit offers 12 channels of universal signal conditioning with extended bandwidth in a single unit.

Simcenter SCADAS RS S24: Sensor unit

The Simcenter SCADAS RS S24 unit integrates a high-density array of sensor signal conditioning for 24 channels into one unit. It supports piezoelectric ICP sensors, a wide range of voltage inputs, externally powered sensors and current loop sensors measured over a shunt.

Simcenter SCADAS RS S12-E: Sensor unit

The Simcenter SCADAS RS S12-E unit integrates 12 channels of sensor signal conditioning with extended bandwidth into a single unit. It supports piezoelectric ICP sensors, a wide range of voltage inputs, externally powered sensors and current loop sensors measured over a shunt.

Simcenter SCADAS RS DI: Digital Pulse and CAN unit

The Simcenter SCADAS RS Digital Pulse unit features multiple connectors for digital pulse conditioning alongside several connections for CAN bus communication, all integrated into a single unit.

Simcenter SCADAS RS Bridge B24: Bridge unit

The Simcenter SCADAS RS Bridge unit brings together a high channel count of 24 bridge signal conditioning in a single unit. It supports low to moderate voltage inputs, externally powered sensors and configurable bridge types including full, half and quarter bridges. The unit is also compatible with piezoresistive sensors, potentiometers, inductive sensors like LVDT and RVDT, RTD sensors and current loop sensors measured over a shunt.

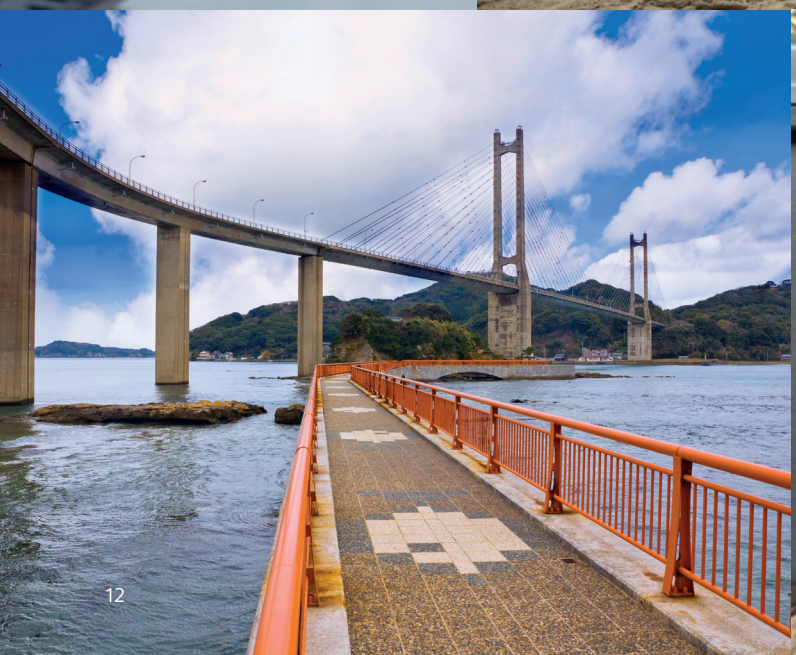
Simcenter SCADAS RS ECAT: EtherCAT unit

The Simcenter SCADAS RS EtherCAT® unit enables seamless digital connection between a Simcenter SCADAS RS system and a real-time Ethernet-based EtherCAT fieldbus, making it ideal for interfacing with test rig controllers.

Simcenter SCADAS RS TC20: Thermocouple unit

The Simcenter SCADAS RS Thermocouple unit integrates 20 channels of universal thermocouple signal conditioning into a single compact unit


Simcenter SCADAS RS



Ruggedness that withstands the real world

Why ruggedness matters

Extreme testing environments push prototypes and test equipment to their limits. From scorching heat to freezing cold, from mud and dust to high shock and vibration, engineers need a data acquisition system that performs flawlessly under all conditions. Downtime or compromised data quality is not an option.

Certified for extreme conditions

Simcenter SCADAS RS is designed and tested to operate reliably in the harshest environments:

- **Temperature range:** -40 Celsius (°C) to +65 °C (some units up to +85 °C)
- **Ingress protection:** IP66/IP67 (IEC-60529) – dust-tight and water-resistant, tested against powerful water jets and 1 m submersion for 30 minutes
- **Shock and vibration:** Withstands 10 g RMS vibration and 100 g peak shocks (MIL-STD 810F)
- **Power resilience:** Operates on unregulated DC power with smart buffering for cranking and safe shutdown during outages

Designed for next-level testing

Ruggedness was not a checkbox, it was a core design driver. Every unit and connector is protected to minimize downtime and safeguard data integrity. This makes Simcenter SCADAS RS the most robust system in the Simcenter SCADAS family.

Benefits for engineers

- Reliable operation in extreme conditions
- Consistent performance and data quality throughout the test campaign
- Reduced risk of data loss thanks to smart power management
- Confidence to complete tests on schedule, even in the harshest environments

Unparalleled connectivity provides remote access from any device anywhere

Why connectivity and remote access matter

Field testing today is resource-heavy and inefficient. A typical setup requires a person with a PC physically connected to the data acquisition system. Test instructions are often misinterpreted, and engineers can't validate measurements until they return to the office. The result? Costly delays and unnecessary re-tests.

Simcenter SCADAS RS changes this. With browser-based remote access, wireless connectivity and live monitoring and the Simcenter SCADAS RS Recorder App scheduling capabilities, you can configure, control and validate tests from anywhere, reducing manpower, improving accuracy and accelerating workflows.

Core capabilities

Remote configuration and monitoring

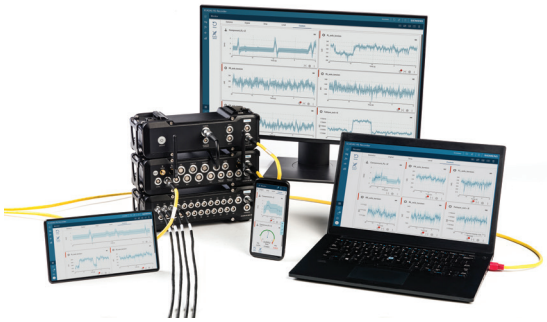
Access your Simcenter SCADAS RS system from any web browser on your laptop, tablet or smartphone. Configure sensors, verify calibrations and monitor live data streams from anywhere, whether you're in the lab, on a proving ground or at a remote site.

Workflow automation

Set up intelligent triggers, automate data capture and streamline repetitive tasks. Use the Simcenter SCADAS RS Recorder App and scheduler to plan recordings in advance to deliver tests run at the right time without requiring an operator onsite. This reduces manpower, improves compliance and eliminates costly delays.

Multi-user collaboration

Multiple engineers can log in simultaneously to configure, monitor and validate tests. This parallel



workflow reduces setup time and minimizes errors, especially for large or distributed teams.

Data management and security

Securely offload data to local servers or cloud storage. Built-in user management and access controls keep your test data safe and compliant.

Seamless integration

The Simcenter SCADAS RS Recorder App works together with Simcenter Testlab for advanced analysis, reporting and digital twin workflows.

What makes the Simcenter SCADAS RS Recorder App unique?

No software installation required

Access the Simcenter SCADAS RS Recorder App via any modern web browser, no information technology (IT) headaches, no compatibility issues.

Live visualization

View live sensor data, trends and diagnostics as tests run. Instantly validate measurements and catch issues early.

Customizable dashboards

Tailor your workspace to show the most relevant data for your campaign.

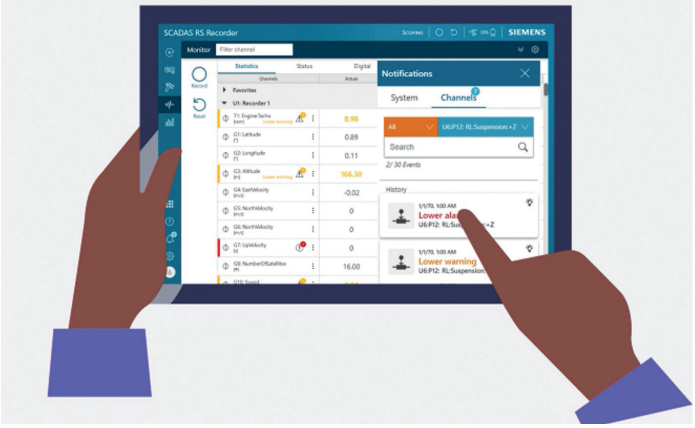
User benefits

Faster setup: Reuse sensor configurations and automate calibration checks.

Reduced errors: Live feedback and validation minimize costly mistakes.

Increased productivity: Parallel workflows and remote access from any device anywhere mean more tests in less time.

Future-proof: Regular software updates deliver new features and security enhancements.

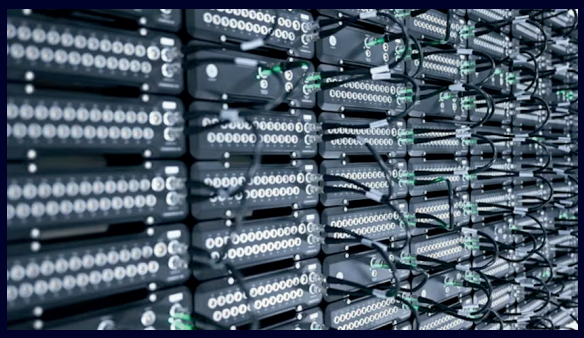


Monitor your test data live from anywhere on any device at any time.

Simcenter SCADAS RS capabilities

Multi-physics data acquisition

Use Simcenter SCADAS RS to test faster and smarter. Capture precise multi-physics data in any environment from proving grounds to labs, including high voltage and harsh conditions. Configure any sensor combination, and measure everything from strain, acceleration and displacement to force, temperature, pressure, GNSS, digital bus and video with one rugged, scalable system.



Rugged data acquisition

Acquire data reliably in harsh environments. Simcenter SCADAS RS is designed to withstand severe conditions such as extreme temperatures, vibrations and moisture. This makes it ideal for testing machinery and heavy equipment in fields such as construction, mining and agriculture, where equipment must operate under tough conditions.

Road load data acquisition

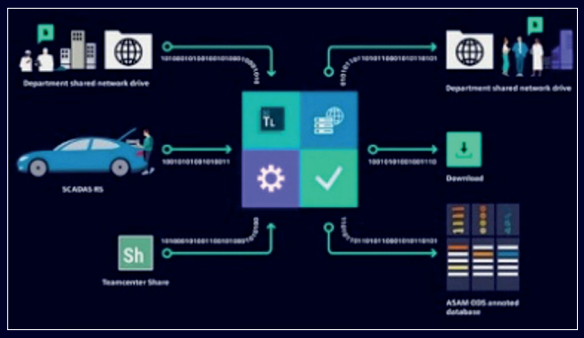
Understanding how road conditions affect vehicle performance is key and Simcenter SCADAS RS can help you acquire accurate data on the loads your vehicle experiences in operating conditions on various road surfaces in many kinds of conditions. Accurate load data helps you determine the stresses and strains on your vehicle and its components. The loading data you acquire can also feed computer-based simulation to help improve your future designs.

Trackside data validation

Simplify instrumentation and test preparation process with wireless connectivity, allowing multiple engineers to simultaneously instrument, verify setups and calibrate sensors from any location. Monitor and guide ongoing measurements remotely and validate the measured data using a convenient, preinstalled, license-free Simcenter SCADAS RS Recorder app.

Automated in-field testing workflows

Use Simcenter SCADAS RS to test smarter with the advanced connectivity features that allow you to set up standalone testing campaigns at remote locations. When combined with Simcenter Testlab Workflow Automation, test data can be accessed remotely by any user, processed automatically on a server and results can be stored centrally. This all occurs while the measurements are ongoing. Enable engineers on and offsite to determine the accuracy of the tests as they happen.



In-lab load data replication

Today's market trend is to use real-time field buses to share measured data, for instance, with test bench controllers. Make a real-time connection to test rig controllers with EtherCAT and replay durability loads in the lab to avoid re-instrumentation of vehicle subassemblies when moving from the field onto the test rig.

Vehicle energy management

Vehicle energy management (VEM) is critical to EVs for optimizing the flow and distribution of energy within the vehicle to maximize efficiency, range and battery range and lifespan. This includes managing charging, discharging and overall energy usage. EV developers then need a way to physically test if their VEM systems are meeting requirements. Simcenter SCADAS RS is well suited for testing vehicle energy management systems in demanding environments, including those with varying ambient temperatures.

Full unattended aquisition and parallel processing

Simcenter SCADAS RS is engineered for long-duration, unattended field measurements while enabling parallel engineering analysis. The system autonomously records data to onboard storage using advanced trigger conditions, requiring no operator interaction. As soon as power is available, Simcenter SCADAS RS boots automatically and continuously captures data whenever measurement criteria are met.

At the same time, engineers can remotely access the system to monitor measurement status, verify data quality, and access data directly into Simcenter Testlab for analysis. While Simcenter SCADAS RS continues acquiring data in the vehicle, engineers can already process and review results, and request additional measurement runs if needed.

By combining continuous onboard data acquisition with live remote analysis, Simcenter SCADAS RS maximizes operational efficiency – allowing operators to focus on their primary tasks while engineers work in parallel, significantly improving overall resource utilization.

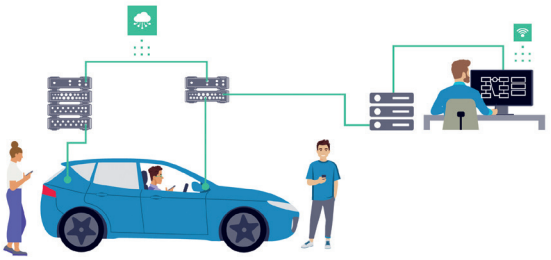
Industry applications

Automotive: accelerating innovation on the road

Challenge: Modern vehicles require synchronized testing of NVH, durability, VEM and electrification across complex subsystems.

Simcenter SCADAS RS Solution: Enables simultaneous acquisition of mechanical, thermal and electrical data from multiple prototypes.

Benefit: Provides 20 percent faster validation cycles and reduced prototype costs.

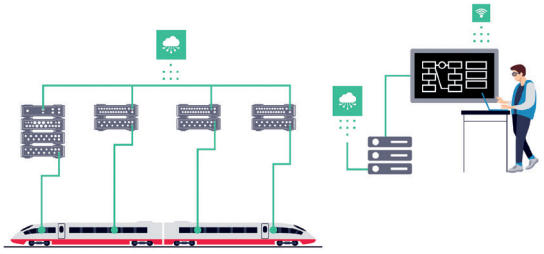


Rail: reliability on track

Challenge: Rail operators need to monitor vibration, energy consumption and structural loads across long, distributed systems.

Simcenter SCADAS RS Solution: Distributed units capture multiple carriages and trackside points, synchronizing all data streams.

Benefit: Reduced downtime and improved passenger comfort through predictive maintenance.

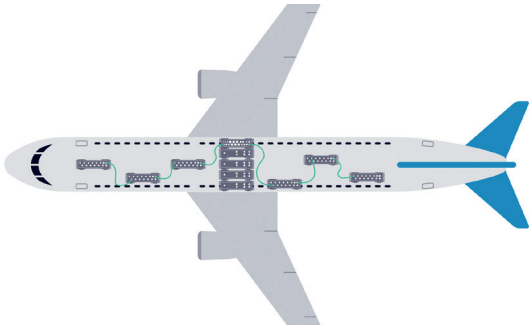


Aerospace: precision under pressure

Challenge: Aircraft and spacecraft must meet rigorous safety and performance standards using multidomain testing.

Simcenter SCADAS RS Solution: Captures synchronized strain, acceleration and acoustic data during ground vibration and modal tests.

Benefit: Rapid compliance checks and improved cabin comfort analysis.

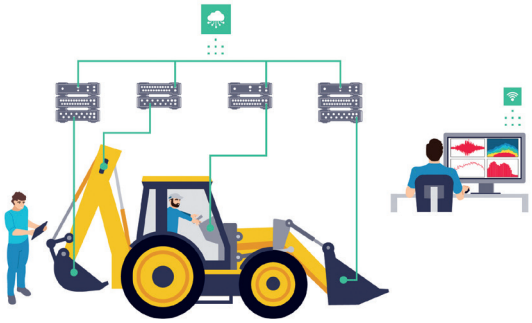


Heavy equipment: built for the harshest conditions

Challenge: Mining trucks, construction machinery and harvesters face extreme mechanical stress and environmental challenges.

Simcenter SCADAS RS Solution: Rugged units capture load spikes, vibration events and operator comfort data in real time.

Benefit: Maximized uptime, improved safety and reduced maintenance costs.

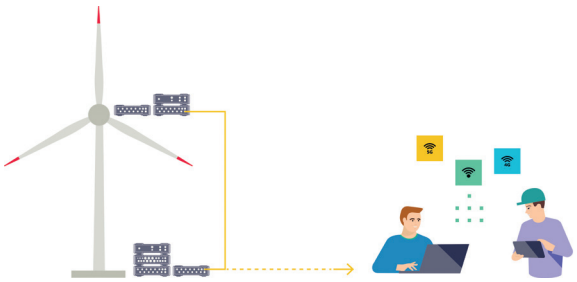


Energy: powering the future

Challenge: Wind turbines and industrial energy systems require precise, multi-physics testing for optimization and reliability.

Simcenter SCADAS RS Solution: Captures blade deflection, torque, vibration and power generation metrics in a single, synchronized dataset.

Benefit: Optimized turbine performance and extended maintenance intervals with unattended testing.

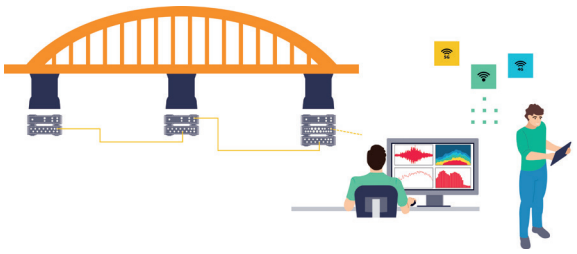


Civil : ensuring structural integrity

Challenge: Bridges are subject to dynamic loads, environmental stress and aging, requiring continuous monitoring for safety and maintenance planning.

Simcenter SCADAS RS Solution: Simcenter SCADAS RS enables synchronized acquisition of strain, displacement, vibration and temperature data from distributed sensors across large bridge structures. Its rugged design and remote access capabilities make it ideal for quick inspection and long-term, unattended monitoring in harsh outdoor environments.

Benefit: Early detection of structural issues and enhanced public safety with live data insights.

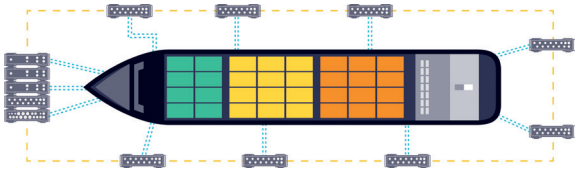


Marine: reliability at sea

Challenge: Ships and offshore platforms operate in harsh, corrosive environments and face complex mechanical and acoustic challenges, from hull vibration to machinery monitoring.

Simcenter SCADAS RS Solution: Simcenter SCADAS RS provides robust, multi-physics data acquisition for marine environments, capturing synchronized signals from hull, engine and onboard systems. Its IP66/67-rated units withstand salt spray, vibration and temperature extremes, while remote access allows engineers to monitor tests from shore.

Benefit: Improved vessel reliability, reduced downtime and compliance with maritime safety standards through comprehensive, high-fidelity data.



Getting the most out of your investment

Higher test throughput, lower effort

Simcenter SCADAS RS increases testing efficiency from setup to insight.

- **Fast setup:** Modular hardware and reusable sensor configurations minimize preparation time and errors
- **Smart acquisition:** Intelligent triggering and onboard preprocessing capture only useful data
- **Instant access:** Remote monitoring enables real-time visibility anywhere
- **Rapid insight:** Direct integration with Simcenter Testlab automates validation and reporting

Result: More tests completed in less time, with consistent data quality.

ROI that extends beyond purchase

Value is realized across people, equipment, and facilities.

- **Fewer campaigns:** Multiphysics acquisition reduces duplicate tests and prototypes
- **Lower overhead:** Intuitive operation shortens training and onboarding
- **Higher availability:** Rugged design and power management maximize uptime
- **Parallel workflows:** Multi-user access accelerates collaboration across teams

Impact: Better utilization of testing resources and budgets.

With these efficiencies, organizations achieve a higher return on testing facilities, personnel and project timelines.

A platform that evolves with you

Designed for long-term use and changing requirements.

- **Scalable:** Grow from small setups to thousands of channels
- **Future-proof:** Standardized cabling and conditioning with backwards capability protect your investment
- **Ready out of the box:** Embedded Simcenter SCADAS RS Recorder App included – no hidden costs
- **Enterprise-grade support:** Siemens calibration and ISO-certified services ensure accuracy and compliance

Test faster. Reduce cost. Stay future-ready.

Take the next step

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