



# STRATA GRID **DER GATEWAY**

GRID EDGE INTELLIGENCE

**CYBERSECURE  
DER INTEGRATION**

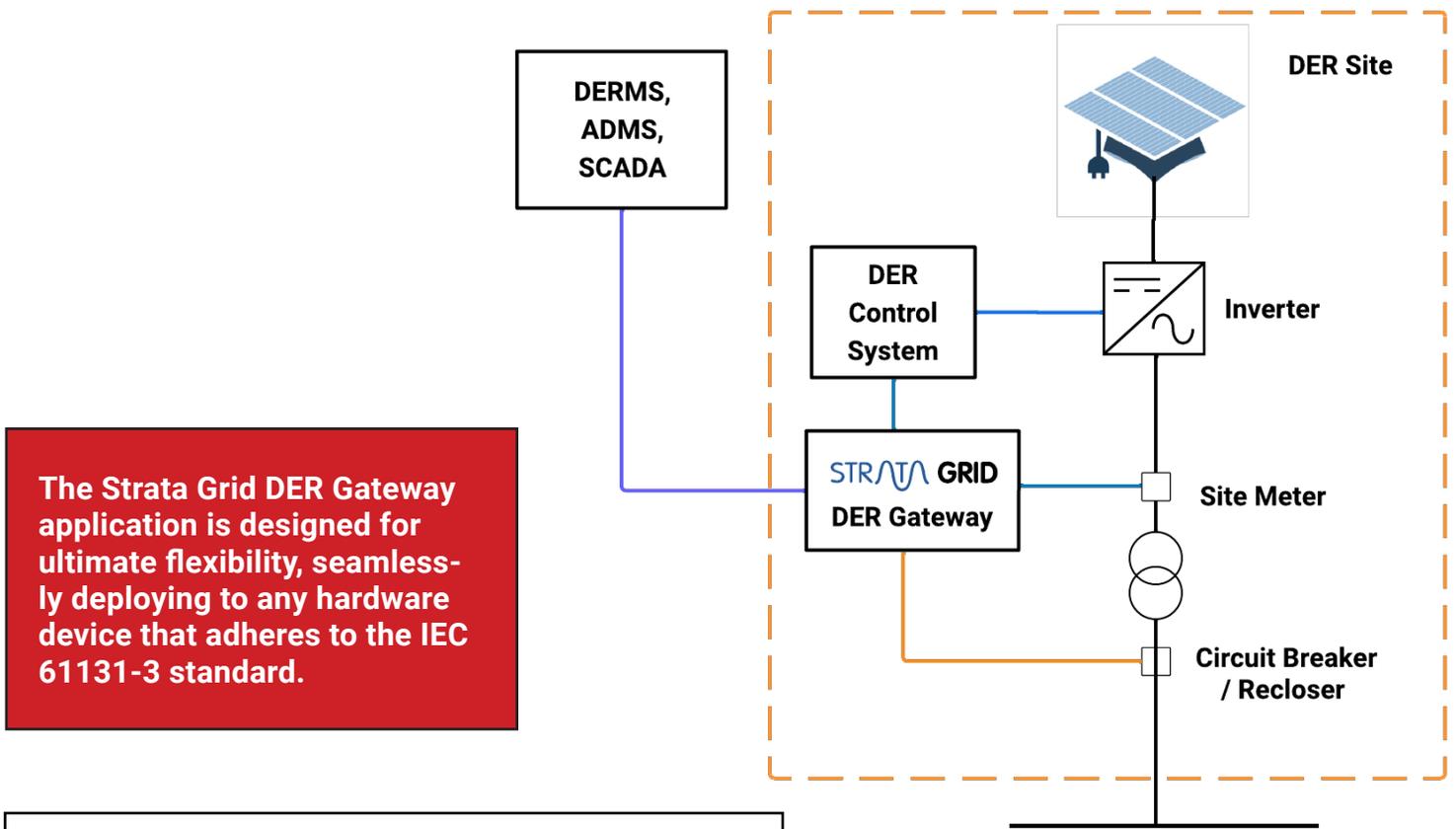
**FAILSAFE  
FUNCTIONALITY**

**STANDARDIZED  
PROTOCOL CONVERSION**



Strata Grid DER Gateway is the configurable software solution to enable smarter monitoring and control of DER and network assets at the grid edge. Deployable either as a standalone solution for grid interconnection and export limiting applications, or as an integrated part of your existing ADMS/DERMS solution including MEPPi's Strata Grid DERMS. The Strata Grid DER Gateway delivers key monitoring, fail-to-safe and local autonomous control functions.

With over 15 years of design and development, the Strata Grid DER Gateway is the configurable software solution to enable cybersecure DER integration, failsafe functionality, and standardized protocol conversion.



**The Strata Grid DER Gateway application is designed for ultimate flexibility, seamlessly deploying to any hardware device that adheres to the IEC 61131-3 standard.**

Legend	
	Electrical Network
	Communication Link (Cellular, Fiber etc.)
	Circuit Breaker / Recloser (Site Status and Control)
	Ethernet / Serial / Hardwired (DNP3, Modbus etc.)

# Strata Grid DER Gateway can be deployed in one of two ways:



**STANDALONE DER GATEWAY**



**DER GATEWAY TO CENTRALIZED DERMS OR ADMS**

SOLUTION	DESCRIPTION	ADVANTAGES
Standalone DER Gateway	Local grid edge DERMS solution supporting multiple use cases and provides a standard single point of connection for all DER site assets	<ul style="list-style-type: none"> <li>• Cybersecure layer between utility and DER site</li> <li>• Low cost entry point</li> <li>• Standard interface for ease of DER interconnection</li> <li>• Localized failsafe functionality</li> </ul>
DER Gateway to centralized DERMS or ADMS	Seamless integration to any DERMS or ADMS enabling coordinated DER control and group dispatch	<ul style="list-style-type: none"> <li>• Includes all advantages of standalone solution</li> <li>• Additional failsafe layer in case of communication failure to ADMS or DERMS</li> <li>• Secure and flexible software component to deliver multiple use cases locally and in concert with any DERMS or ADMS controls.</li> </ul>

## Our Customers



The Strata Grid DER Gateway has the ability to communicate and control multiple devices at the DER site.

Our in-house engineering support team has the expertise to assist our customers to successfully integrate with all devices.



## INTEGRATIONS

- DER Control System
- Smart Inverters
- Measurement Devices
- Reclosers
- Circuit Breakers
- Other Monitoring and Control Devices

## SYSTEM BENEFITS

- Integration point for DER, grid assets, and field devices using open standard utility protocols
- Operates independently or receives control requests from a centralized utility control system or operator (DERMS/EMS/ADMS/SCADA) to manage micro or macro grid within its limits
- Standard and custom fail-to-safe local functionality
- Secure and flexible software component to deliver multiple use cases locally and in concert with Utility DERMS and Microgrid controls
- Proven capability and flexible configuration through advanced toolchains to deliver bespoke projects
- The Strata Grid DER Gateway is installed at the DER site and connects to local devices as listed in the integrations table above



## CONTROL FUNCTIONS

Standalone local control for export limiting and locally managed interconnection

Integration point for DER assets to Strata Grid

Grid Edge interface for scheduling, dispatch, visibility, and data collection

Direct dispatch for site/local constraints and objectives

Utility DERMS integration

Microgrid integration

Utility RTU integration

DER inverter integration

Schedule control

Setpoint control

Volt-Watt, Volt-Var curves, Frequency-Watt curves

Circuit breaker integration (inc. Delayed Auto Reclose)

P, Q, Voltage and Frequency Monitoring

Multiple onsite DER in co-located and hybrid configurations

Dual Operating Limits and scheduling – Export and Import control

smarter  
grid solutions



MITSUBISHI ELECTRIC  
POWER PRODUCTS, INC.

**SPEAK TO OUR TEAM ABOUT A CUSTOM DEMONSTRATION.**



**MITSUBISHI ELECTRIC  
POWER PRODUCTS, INC.**

Phone: (+1) (866) 390-6487

Fax: (+1) (724) 778-5209

Website: [www.meppi.com](http://www.meppi.com)

 @Mitsubishi Electric Power Products

**LEARN MORE**

