

## **DISTRIBUTED ENERGY RESOURCE (DER) GATEWAY**



## **ENABLING GRID EDGE INTELLIGENCE**

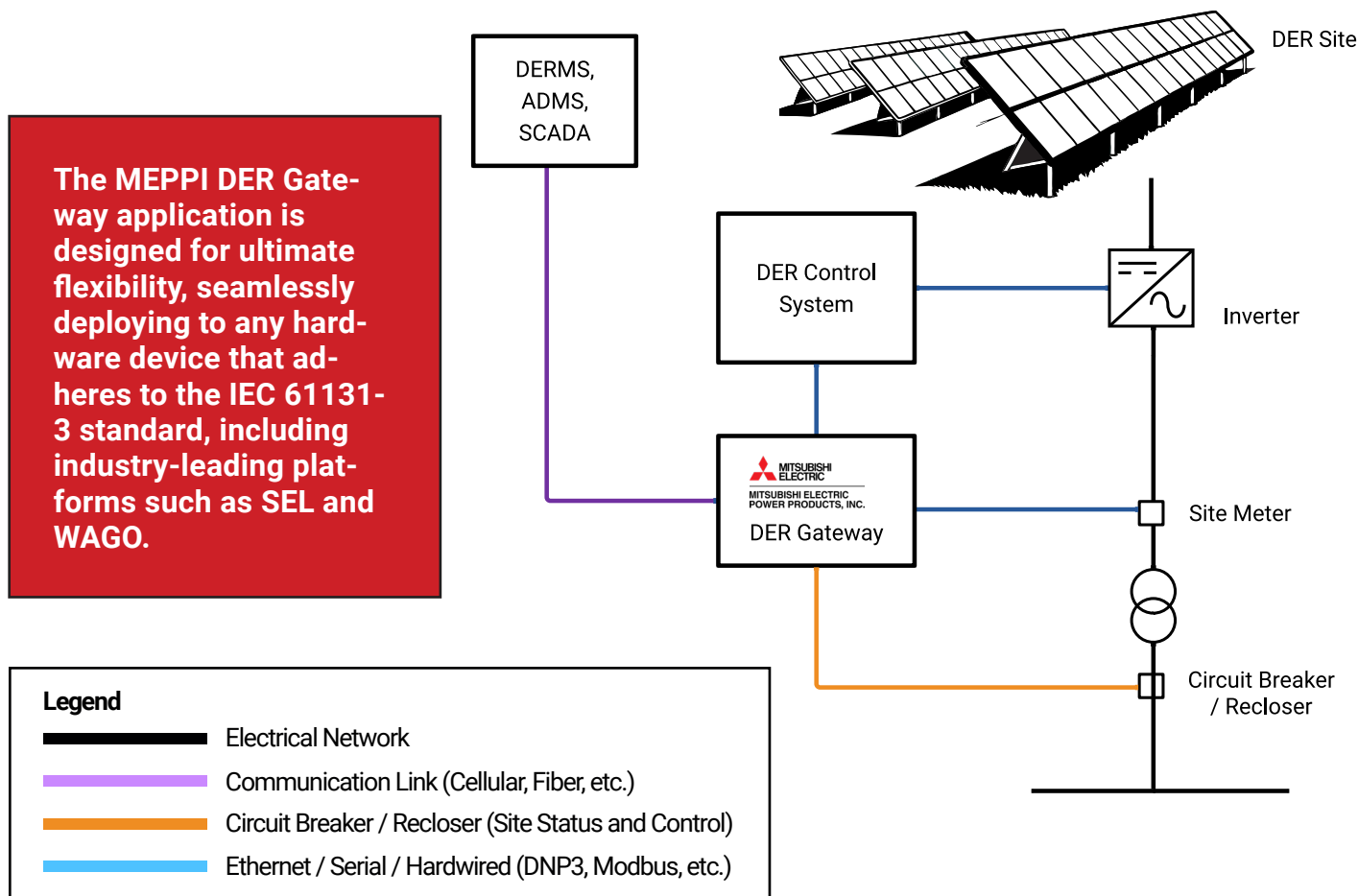
**CYBERSECURE  
DER INTEGRATION**

**FAILSAFE  
FUNCTIONALITY**

**STANDARDIZED  
PROTOCOL TRANSLATION**



MEPPI's DER Gateway is a configurable software solution that enables smarter monitoring and control of DER and network assets at the grid edge. Built on an IEC 61131-3 compliant codebase, it is well suited for deployment on industry-standard substation RTUs, PLCs, or other devices, and supports leading DER protocols such as IEEE 2030.5. The solution can be deployed as a standalone system for grid interconnection and export-limiting applications or integrated with existing ADMS/DERMS platforms, including MEPPI's Grid DERMS. The DER Gateway delivers essential monitoring, fail-to-safe, and local autonomous control functions. With over 15 years of design and development, it provides cybersecure DER integration, failsafe functionality, and standardized protocol conversion.



## MEPPI's DER Gateway can be deployed in one of two ways:



**STANDALONE DER GATEWAY**



**DER GATEWAY TO CENTRALIZED  
DERMS OR ADMS**

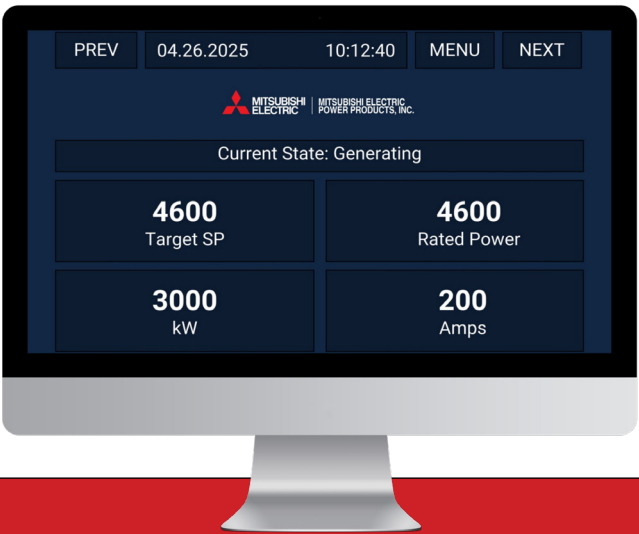
SOLUTION	DESCRIPTION	ADVANTAGES
Standalone DER Gateway	Local grid edge DERMS solution supporting multiple use cases and provides a standard single point of connection for all DER site assets	<ul style="list-style-type: none"> <li>• Cybersecure layer between utility and DER site</li> <li>• Low cost entry 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



**MEPPI's 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
IEEE 1547 compliance and visibility through continuous monitoring of inverter settings
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 MEPPI 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 MEPPI DERMS

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





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



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