

# PEERFactory<sup>®</sup> MES

## Manufacturing Execution System

Advanced manufacturers find themselves in increasingly competitive marketplaces. Cost pressures, delivery dates, and regulatory compliance require manufacturers to launch faster, reduce costs, control quality, and provide traceability into their shop floors at unprecedented levels.

### The Challenge

Manufacturers must embrace a world of shorter production runs and extended supply chains, and accomplish their goals faster and with fewer engineering and administrative resources. Manufacturing Execution Systems (MES) offer the shortest route to control and visibility into your manufacturing processes. However, the road to successful MES implementation is littered with failed attempts, cost overruns, and partially implemented systems.

### The Solution

PEERFactory MES is one of a suite of flexible, robust, and scalable PEERFactory components. At PEER Group, we understand that connecting to factory automation is paramount. As such, our components are built upon our PEERFactory Data Management Framework (DMF™), which allows for connectivity to a wide range of factory automation, using a wide range of communication protocols.

PEERFactory MES is a collection of reusable components that are tailored to specific customer requirements. At PEER Group, we combine our experience in the semiconductor, solar, electronics, life sciences, and automotive manufacturing industries to bring to market best-of-breed functional modules that meet your manufacturing needs while achieving high levels of uptime and throughput.

### PEERFactory MES Highlights

FEATURES	BENEFITS
<i>Scalability</i>	▶ Deploys to any environment, from small installations to large, high-volume environments and multi-sites
<i>Flexibility</i>	▶ Customized and extended to provide a unique solution ▶ Configured to customer requirements according to your functionality needs, budget, and timelines
<i>Supportability</i>	▶ Supported and maintained after factory deployment
<i>Extensibility</i>	▶ Can be updated by both PEER Group and customer (customer-specific source code)
<i>Connectivity</i>	▶ Provides multi-protocol support, including SECS/GEM, OPC, flat files, database, XML, Interface A, and custom protocols

# PEERFactory MES Functionality

FEATURES	BENEFITS
<i>Scheduling</i>	▶ Enables push and pull scheduling modules
<i>WIP Tracking</i>	▶ Provides real-time tracking of all in-process and completed units
<i>Defect Tracking</i>	▶ Provides real-time tracking of product status, quality metrics, and pareto charts
<i>Recipe Control</i>	▶ Tracks recipe to unit, pushes product-specific recipes to the tools
<i>Genealogy Management</i>	▶ Tracks all operations and all consumed materials
<i>Alert Manager</i>	▶ Alerts for tool state, process variables, and buffer queues
<i>Business System Adapter</i>	▶ Connects seamlessly to other systems such as ERP, SCM, and MES
<i>Reporting &amp; Visualization</i>	▶ Provides historical and real-time reports, dashboards

## About PEERFactory

PEER Group's PEERFactory is a toolkit of comprehensive integrated software modules that provides tailored, high-performance manufacturing operation solutions proven to meet specific customer needs for plant visibility, data collection, and line monitoring and control. PEERFactory combines the strengths of both enterprise and SCADA/HMI MES products while minimizing associated risks and costs. PEERFactory's Data Collection, MES, Asset Management, and APC modules feature high-performance storage and retrieval, flexible and scalable deployment, interoperability, and visualization.

## About PEER Group

PEER Group provides innovative factory automation software solutions and consulting services to the semiconductor, photovoltaic, and electronics industries. The world's best manufacturing companies turn to PEER Group to solve their most challenging equipment automation, data management, and process control problems. With more than 100,000 licenses shipped, we are the world's leading supplier of equipment connectivity and testing products to automated factories around the globe. Our innovative and reliable products and services help lower the cost of automation for high-volume manufacturers and their equipment suppliers.

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