MITSUBISHI ELECTRIC
Changes for the Better

Automating the World

AUTOMATION SOLUTIONS GUIDE

For a More Sustainable Future



AUTOMATING THE WORLD

Our planet is in a precarious position. It's not something that one person, one company or one country can fix. We must all do our part to enable a sustainable future.

For us, that means sharing know-how and actively collaborating to find new ways of using automation—not just to address supply chain and labor challenges, but also the world's climate problems.

We believe we can create a sustainable future through continuous technological innovation, rapid adoption of digitalization and aggressive decarbonization.

Mitsubishi Electric US, Industrial Automation is committed to making the world a better place. We are helping organizations accelerate digital transformation and achieve energy efficiency with intelligent automation solutions. Our solutions support everything from clean water and sanitation to affordable and clean energy to industry innovation and infrastructure.

MAKING CLIMATE ACTION THE CORNERSTONE OF OUR COMPANY

By creating and promoting automation solutions for the entire value chain, we will help the world achieve:

- **Carbon neutral** cities and communities by reducing CO_2 emissions in our company, our factory and our society
- A **circular economy** where resources are sustainably sourced, recovered and reused whenever possible
- A **resilient** society that can safely and securely cope with environmental changes and risks
- An **inclusive** society where everyone has meaningful work and enjoys economic growth
- **Good health**, well-being and a better quality of life



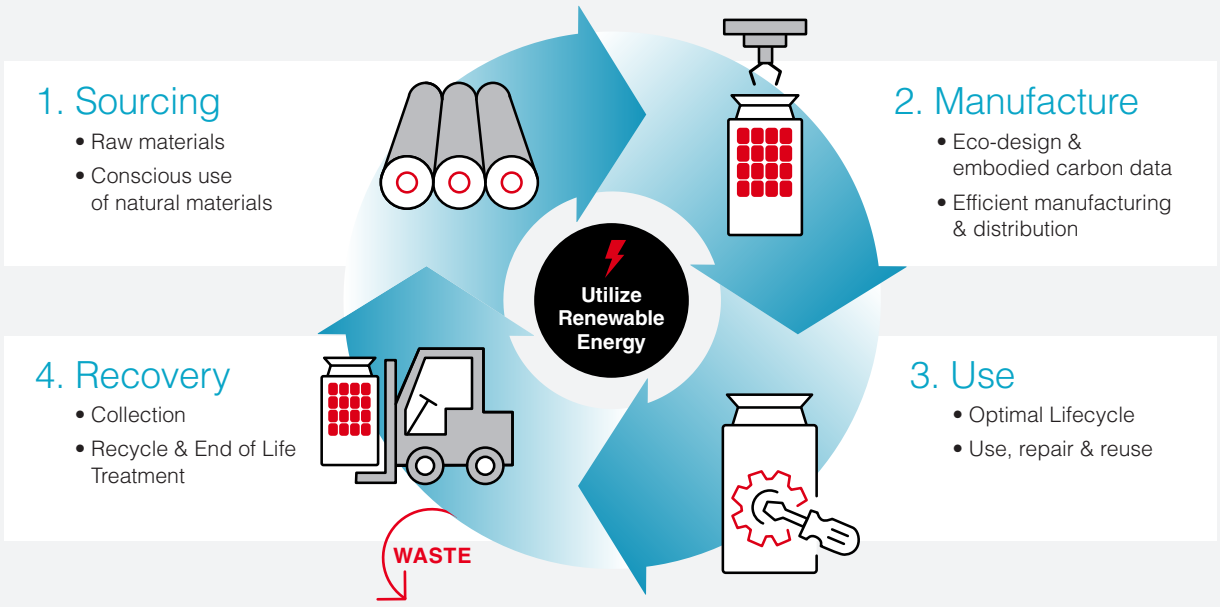
Achieving Carbon Neutrality

Mitsubishi Electric US, Industrial Automation is committed to making our company's entire value chain carbon neutral by supporting a circular economy where resources are sustainably sourced, recovered, and reused whenever possible.

We are also helping our customers create or expand to achieve carbon neutrality with intelligent automation solutions. Our solutions support everything from clean water and sanitation to affordable and clean energy to industry innovation and infrastructure.



THE CIRCULAR ECONOMY



UNDERSTANDING LEADS TO LONG-TERM SUCCESS

Decades of Expertise

Mitsubishi Electric US, Industrial Automation has a great depth of knowledge from working with a wide range of industries. We understand the challenges you face, and we are ready to help you overcome them. We can also help you position your organization for ongoing success, even as conditions and challenges evolve.



WATER & WASTEWATER

An aging workforce. An increase in cybercrime. New regulatory requirements. The need to conserve water. Leaders in water and wastewater are addressing these issues even as growth in suburbs overwhelms existing infrastructure. Our automation solutions are helping to:

- Generate operational efficiencies
- Prioritize investments to consider whole life costs of a project versus just assessing capital investments
- Improve the quality and speed of decision-making throughout the organization

AUTOMOTIVE

Unpredictable shifts in demand. Unreliable supply. Unanticipated megatrends. Innovators are racing to bring new electric vehicles to market and meeting demands for shorter charging times and reduced battery weight. Leading automotive manufacturers are addressing these issues by using our automation solutions to:

- Improve overall agility, quality, efficiency and resilience
- Lower the cost of operations
- Drive forward with smart factory implementation strategies



FOOD & BEVERAGE

Huge shifts in consumer demand. Rapidly escalating labor costs. Staff capacity shortages. Leading food and beverage companies are addressing these issues by using our automation solutions to:

- Provide advanced capabilities such as real-time supply chain visibility
- Reduce reliance on manual labor to mitigate labor shortage and retention challenges
- Ensure long-term resiliency and agility with solutions that can be quickly and easily reprogrammed and redeployed

LOGISTICS & ECOMMERCE

Persistent labor shortages. A sudden and dramatic shift from case-level to unit-level processing. Spiraling costs. Forward-looking logistics leaders are using our automation solutions to:

- Accelerate distribution and fulfillment
- Mitigate labor shortages and rising labor costs
- Eliminate waste and enable sustainable packaging

MANUFACTURING

Unpredictable shifts in demand. Unreliable supply. Labor cost, skills, and availability. To be future-ready, manufacturing leaders are using our automation solutions to:

- Increase digital fluency in production environments
- Enable Industry 4.0 capabilities
- Maintain or increase output levels with a reduced workforce and constrained environment

MATERIAL HANDLING

Massive supply chain disruptions. Rising labor costs. Serious labor shortages. Smart material handling companies are addressing these issues by using our automation solutions to:

- Benefit from emerging technologies such as artificial intelligence and the Industrial Internet of Things
- Build supply chain resilience and agility
- Enable faster response and recovery with cloud and edge computing
- Develop industry-specific technologies to mitigate gaps in skilled labor and improve safety

PACKAGING

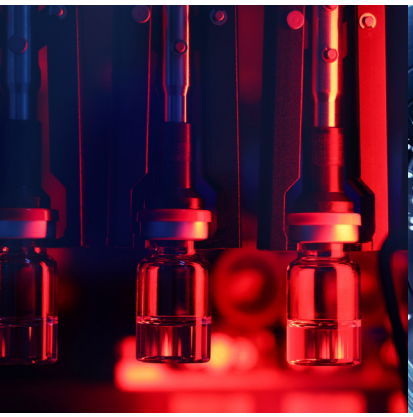
Rising shipping rates. Labor shortages. Increased demands on production. Savvy packaging professionals are adapting successfully by using our automation solutions to:

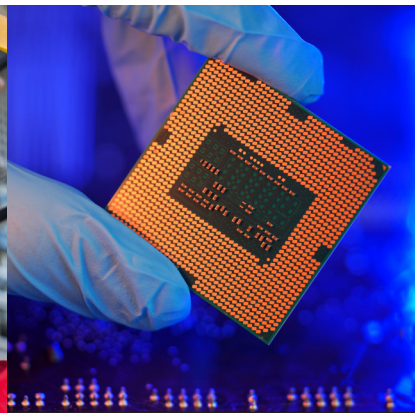
- Increase innovation and operational efficiency
- Accelerate packaging lines
- Right-size packaging to reduce shipping costs

SEMICONDUCTOR

Shrinking profit margins. Fierce competition. A fast-changing and fragmented market. Future-looking semiconductor companies are reinventing themselves by using our automation solutions to:

- Redefine processes for operational efficiency
- Develop the ability to customize by industry need
- Increase access to information across the enterprise



MACHINE TOOL

Continued volatility in costs, labor, policies and tariffs. Leading machine tooling companies are overcoming these issues by using our automation solutions to:

- Increase operational resilience and efficiency
- Improve organizational agility and visibility
- Maximize productivity and flexibility

OIL & GAS

Regulatory changes. Changes in customer preferences. Lower-cost modernization and sustainability imperatives. Proactive oil and gas companies are addressing these and other disruptive changes by using our automation solutions to:

- Increase efficiencies and cost savings
- Advance operational and technological capabilities
- Achieve net-zero initiatives

What People Are Saying About Mitsubishi Electric

"Every time we hit a roadblock or snag, [Mitsubishi Electric is] always **very responsive**. They're more than willing to get on the phone with us and work things through so that we can put out the highest quality product possible."

— PRODUCT MANAGER, HUNTER FAN

"We're a small company, but Mitsubishi Electric really treated us like a big customer. I never got the sense that was out of the ordinary, just that providing **good service** was the way that they did business with everyone."

— PRESIDENT & CEO, IPSUMM





"We sell equipment all over the world. Because the machine's components are all manufactured by Mitsubishi Electric, they're available all around the world. We know this machine can be **supported everywhere** we are."

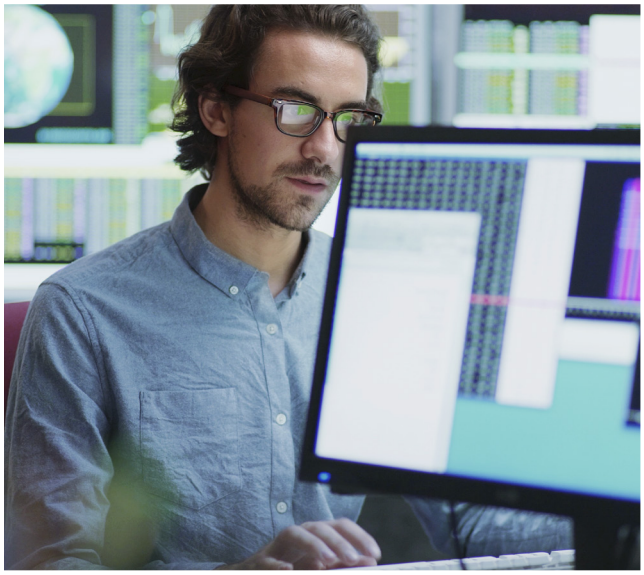
— SOFTWARE CONTROLS ENGINEER, BW INTEGRATED SYSTEMS

"Mitsubishi Electric products have proven to be **extremely reliable** and help us ensure that our equipment will keep on working as intended– and that our customers will keep on getting trouble-free operation."

— ELECTRICAL ENGINEERING MANAGER
ROCHELEAU

"Mitsubishi Electric shares the same priorities as us; customer focus, flexibility and **continuous innovation** in products and services."

— GENERAL MANAGER,
NEXON AUTOMATION, MEXICO



"Unlike other companies, Mitsubishi Electric was **able to adapt** their system to fit the existing project design. This was the first and most important factor in choosing them."

— MARMARAY PROJECT MANAGER
TAISEI CORPORATION

"We found Mitsubishi Electric's cutting-edge technology and the result could not be better. **Less costs** in the manufacturing process and more performance and user satisfaction."

— INDUSTRIAL AUTOMATION MANAGER
PERFOR



ADVANCING AUTOMATION TO ACCELERATE OUTCOMES

Our Solutions Deliver

Our strength comes from the fact that we're a large global company and a single-source provider of game-changing technologies. We design and manufacture every core automation technology and continuously set new standards for:

- **QUALITY** – Our solutions have fewer out-of-box failures and 10X lower repair rate than the industry leader.
- **PERFORMANCE** – Constant innovation and iterative improvements deliver industry-leading performance for the most demanding applications.
- **COMPATIBILITY** – We deliver unparalleled forward migrations and backward compatibility, so you can upgrade and deploy new products while protecting legacy equipment investments.

Join us. Let's change the future together.



PROGRAMMABLE LOGIC CONTROLLERS

Our lineup of fully scalable controllers is among the most flexible in the industry, ranging from traditional PLC platforms to the advanced MX Controller that integrates sequence, motion, and network control into a single high-performance architecture. These solutions support a wide variety of industrial networks, including CC-Link® IE TSN, EtherNet/IP™, PROFINET®, Modbus®, and more. Advanced cybersecurity features, seamless connectivity, and tight integration with IT and MES systems help manufacturers accelerate their Industry 4.0 and digital transformation initiatives.

- Complete controller lineup supports standalone machines to complex, multi-axis systems
- Integrated logic, motion, and networking in a single platform with MX Controller
- Deterministic communication and synchronized control via native CC-Link IE TSN networking
- Additional network options including EtherNet/IP, CIP Safety, OPC UA, MQTT and more
- Special function modules available
- Common engineering software across generations
- Advanced cybersecurity features to protect critical product assets
- Tight IT, MES, and cloud integration for data-driven manufacturing and Industry 4.0 initiatives





HUMAN MACHINE INTERFACES

Our HMI platform is a family of high-performance operator terminals that combine the best in performance, graphics, and functionality in a unique, ultra-compact, and robust package.

- Powerful and brilliant graphics
- Intuitive multi-touch and gesture navigation
- Advanced data sharing and gateway function, including web, e-mail, FTP, VNC, VPN, MES connections, and cybersecurity functions
- Flexibility of standardized OPC UA and multi-vendor communications
- Remote connectivity through mobile devices such as cellular phones and tablets
- Camera, video, and multimedia integration
- Improve productivity by monitoring the system status on the powerful maintenance platform

COMPUTERIZED NUMERICAL CONTROLLERS

We have produced high-performance CNC systems since 1973 and are one of the largest suppliers of customized CNC systems for machine tool builders worldwide. Choose from a complete lineup for machine tool, metal cutting, grinding, routing or forming applications.

- 3D graphic tracing for visual confirmation and program check
- High-speed, high-accuracy mode for complex and highly precise 3D mold work
- Icon based navigation and tablet gesturing for intuitive operation
- Nano control system for precise and accurate operation
- 5-axis simultaneous control for complex part programs
- Customizable controls to add end user screens
- Long term life cycle support





SERVO AND MOTION CONTROLLERS

Our standalone and PLC-based servo amplifiers and motion controllers set the standard for servo performance. Advanced servo features make it possible to unlock unused potential in machines and facilities.

- Full suite of autotune models including Quick Tuning, One Touch, and manual
- Compatible with CC-Link IE TSN, EtherCAT, EtherNet/IP, SSCNET III/H, and general-purpose interface
- Real-time adaptive load control reduces wear and tear on mechanical components
- 26 bit high resolution encoder for accurate positioning and 3.5 kHz speed frequency response for faster throughput speeds and increased cycle times
- STO & SS1 as standard, with expanded safety functionality including SS2, SOS, SBC, SLS, SSM, SLI, & SLT Category 4, PL e, SIL 3 safety level
- Energy saving capabilities through regenerative power for overall energy-conservation
- Compatible with FX5 TSN Motion Module, approved EtherCAT Masters, and with flagship RD78G(H) Motion Modules to allow for up to 256 axis of synchronization and complex motion control



INDUSTRIAL/COLLABORATIVE ROBOTS

Our robot lineup consists of SCARA, vertically articulated, and collaborative robots with small to medium payload capacities. Our robots are among the fastest and most accurate in their class and are suited for high-repeatability, high-speed applications.

- Standard three-year warranty which can be extended to five with the purchase of a Robot Diamond Assurance preventative maintenance plan
- Seamless 3rd party integration and support for multiple network types including Ethernet/IP, EtherCAT, and PROFINET
- Built-in motion controller for controlling up to eight additional axes of servos
- Easy to program with block-based visual programming or code based in our all-in-one robot software, RT ToolBox3
- Advanced features such as force sensing, conveyor tracking, 2D and 3D vision available
- Extremely reliable with an outstanding Mean Time Before Failure (MTBF)



VARIABLE FREQUENCY DRIVES

Since starting inverter production in the early 1980s, we have evolved to offer a comprehensive line of drive products and solutions that deliver exceptional functionality year over year. Our VFDs deliver efficient performance, are highly reliable and virtually maintenance-free.

- Comprehensive lineup of capacities and voltage classes
- Numerous configurations from stand-alone to fully integrated
- Application specific functionality that includes fan and pumps, winders, cranes and conveyors
- Control modes covering the needs from V/F to vector, induction to permanent magnet motors
- Advanced safety and diagnostic capabilities that help maximize uptime and simplify maintenance



GENESIS SOLUTION SUITE

Turn operational data into actionable intelligence with GENESIS industrial software platform for SCADA, HMI, visualization, historian, analytics, and digital transformation. From single machines to enterprise-wide operations, the platform connects, contextualizes, visualizes, and analyzes data from virtually any source.

- Deployed globally across thousands of manufacturing, infrastructure, and building automation installations
- Native connectivity to Mitsubishi Electric automation products through FA Connector and extensive third-party drivers
- Advanced 2D and 3D visualization, dashboards, mobile access, and web-based clients
- High-performance historian for real-time and long-term operational data collection, analysis, and reporting
- Built-in alarming, reporting, workflow, and analytics capabilities to improve operational awareness
- Secure connectivity to OT, IT, MES, cloud, and enterprise systems through OPC UA, SQL databases, and more
- Highly scalable architecture supporting applications from a few hundred tags to millions of tags across multiple sites
- Supports digital transformation initiatives through contextualized data, KPI monitoring, and enterprise-wide visibility

DIGITAL TRANSFORMATION SOFTWARE & NETWORKING

Our software suite is easy to use and allows users to reduce total cost of ownership. It offers full functionality including programming, simulation, diagnostics, and maintenance tools.

- Solutions for both process and discrete machine control
- Flexibility allowing rapid network and module setup of any automated system
- Central “launch pad” for all project titles
- PLC programming compatibility with the IEC61131-3 standard and PLC Open
- Engineering support and full documentation access
- Advanced GENESIS SCADA solutions, OPC communication with controllers
- 3D Simulation software MELSOFT Gemini to accelerate designing and commissioning processes
- Cybersecurity and secure remote access with Dispel software





CC-LINK IE TSN

CC-Link IE TSN combines gigabit Ethernet performance with Time-Sensitive Networking (TSN) technology to create a unified network infrastructure for next-generation manufacturing. It enables deterministic control, high-speed communications, and seamless integration of operational and information technologies on a single backbone.

- Gigabit bandwidth combined with TSN technology enables deterministic real-time communications
- Single network architecture supports motion, safety, I/O, PLC, HMI, drives, and information systems
- Precise time synchronization and time stamping across all connected devices improves diagnostics and troubleshooting
- Supports converged OT and IT traffic on the same network while maintaining real-time control performance
- Flexible network topologies including line, star, ring, and mixed configurations
- Enables advanced applications including synchronized multi-axis motion, machine-to-machine communication, and data-driven manufacturing





ENERGY MANAGEMENT PRODUCTS

As manufacturers focus on sustainability, energy efficiency, and operational cost reduction, we provide energy monitoring and management solutions that deliver actionable insights from the device level to the enterprise.

- Comprehensive lineup of power meters, multifunction energy meters, and power monitoring devices
- PLC-integrated energy management solutions for machine-level and facility-level monitoring
- Panel-mounted and DIN-rail meters with multiple communication options
- Web-based configuration, visualization, and energy analysis tools
- Scalable architecture supporting machine, line, plant, and enterprise-level energy initiatives
- Integration with SCADA, MES, and cloud platforms
- Real-time dashboards, historical analysis, KPI tracking, and automated reporting

LOW VOLTAGE SWITCHGEAR

We offer a complete range of switchgear products, including everything from air circuit breakers and compact molded case circuit breakers to magnetic contactors and thermal overload relays.

- Compliant with most global standards (IEC, UL, CSA, CCC)
- Full range of circuit protection ranging from fractional amps up to 6300 amps
- Magnetic contactors and (open type) motor starters up to 600 amps
- Manual motor starters up to 32 amps



Visit our website to learn more about how our automation solutions are helping to achieve a more sustainable society by **accelerating digital transformation and achieving energy efficiency.**

LEARN MORE



SOLUTIONS AND SERVICES

Keeping your business producing is important to Mitsubishi Electric. Our factory-trained technicians and engineers are available to assist with a multitude of services and provide expert service on-site at your facility anywhere in the U.S. In addition to offering world-class products and services, we provide the tools and know-how to maximize your uptime while delivering the lowest total cost of ownership.

Service Solutions

- Robot Diamond Assurance
- Preventive Maintenance: CNC, Robot
- Extended Warranties
- Machine Down
- Start Up
- Retrofits/Upgrades
- On-site Technical Support
- On-site Application Engineering
- CloudCNC® Backup
- CloudRobot® Backup

Project Solutions

- IoT Services
- Machine Upgrade
- Machine Conversion
- Turnkey
- Project Management

ENGINEERED SOLUTIONS

We offer a wide range of engineering services, including consultation, design and manufacturing. Whether you need configured drives, custom panels, configurable standalone robotic cells, or specialized software, we can meet your unique needs.

- Expertise to deliver anything from a simple stand-alone cabinet to a fully integrated turnkey motor control center
- Engineered and manufactured to your precise specification and budget requirements
- Consultation services to help define and interpret project specifications
- Certified to meet UL standards



CONTINUED SUPPORT FOR CONTINUED SUCCESS

We're With You All the Way

SUPPORT

We pride ourselves in creating enduring trust-based relationships with our customers. Our goal is to deliver world-class products and tools, with the expertise to help you strengthen your profitability, optimize production uptime, and reduce total cost of ownership.

TRAINING

We want you to get the most out of your Mitsubishi Electric solutions. We offer comprehensive training that helps you maximize your investment, maintain equipment at peak operation levels and resolve many problems independently.

SUPPORT OFFERINGS

- PRE AND POST-SALES SERVICE AND SUPPORT
- FIELD ENGINEERING SUPPORT GROUP FOR SALES TEAMS
- SPECIALISTS FOCUSED ON TECHNICAL APPLICATION OF EACH PRODUCT
- PROJECT GROUPS SUPPORTING OEM AND END-USER CONVERSIONS
- TECHNICAL SUPPORT CENTER WITH ULTRA-QUICK CALL RESPONSE TIME
- ON-SITE FIELD SERVICE CALLS
- ONLINE MANUALS
- EMAIL AND PHONE-BASED TECHNICAL SUPPORT

TRAINING OPPORTUNITIES

- IN-HOUSE, ON-SITE, VIRTUAL, AND ONLINE TRAINING CLASSES
- ELEARNING GROUP CLASSES
- QUICK-TIP VIDEOS
- CUSTOMIZED TRAINING
- HANDS-ON LEARNING WITH SIMULATION EQUIPMENT
- ONE-ON-ONE CNC TRAINING CLASSES



MAKING THE WORLD A BETTER PLACE

For Us, “Giving Back” Is Serious Business

EDUCATIONAL SOLUTIONS

A big part of what we do is focused on developing manufacturing talent, building educational partnerships and reshaping educational facilities to help create the skilled workforce of tomorrow.

Through Diamondworks!, our educational solutions program, we help empower students, employees and employers with cost-effective and tailored learning programs. We provide high schools, technical colleges, trade schools, universities, and industry organizations with educational resources, curriculum support and activities that support STEM learning in manufacturing.

Mitsubishi Electric US, Industrial Automation

Diamond*works!*

Educational Solutions



Educational training equipment, curriculum, exercises, instructor training, and certifications to support hands-on learning.

Empower students, employees and employers





ENVIRONMENTAL SUSTAINABILITY VISION 2050

We care about the environment, and one of our top goals is to make lasting social contributions as a leading green company. We've been recognized by the US Environmental Protection Agency and the United Nations for our sustainable development practices and contributions to the global environment.

Our Environmental Sustainability Vision 2050 initiative positions environmental protection as a corporate priority. It defines our future course through three action guidelines.

1. Apply diverse technologies in wide-ranging business areas to solve environmental issues.
2. Challenge our company and our partners to develop business innovations for future generations.
3. Publicize and share new values and lifestyles.

Environmental Sustainability Vision 2050

SERVING OUR COMMUNITY

Since 1991, the VISION Committee has pursued philanthropic and volunteer opportunities within the local community and beyond. Working closely with the Mitsubishi Electric America Foundation (MEAF), VISION emphasizes the foundation's mission to help youth with disabilities maximize their potential and participation in society.

Embracing the Mitsubishi Electric belief in "Changes for the Better," we are dedicated to connecting the people of Mitsubishi Electric US, Industrial Automation with meaningful opportunities to contribute to a better world.



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