

ADVANCED MIGRATION TECHNOLOGIES



Honeywell

A SEAMLESS WAY TO KEEP YOUR OPERATIONS CURRENT

Migrating to a new system should be a simple process. As a leading automation technology supplier, Honeywell is continually exploring new ways to help you make critical transitions with minimum downtime and unneeded expense. Utilizing secure processes, tools and a global migration support network, Honeywell can help you increase production rates, maintain regulatory compliance, manage risk, extend the life and performance of systems, and improve responses to changing business demands – all with minimal impact to your day-to-day business.



A GLOBAL NETWORK OF EXPERTS READY TO KEEP YOUR OPERATIONS CURRENT

Financial loss or possible unsafe operating conditions from an unplanned outage could far exceed the upgrade cost for a legacy investment.

Increasingly, plant owners are faced with:

- Managing operations with reduced onsite staff
- System component failures and resulting downtime
- Limited access to onsite subject matter experts

Only those organizations with a solid roadmap for ongoing control technology upgrades can mitigate risks and drive plant operations seamlessly without unnecessary disruptions.

HOW HONEYWELL HELPS

For plant owners/operators, Honeywell's Advanced Migration Technologies offer continual support designed to make modernization a smoother, shorter, and less painful experience. Utilizing advanced cloud-based control systems and Honeywell's global support network, plant owners can make many of the necessary upgrades that once took weeks or months from anywhere in the world with minimal operational impact.

Key benefits include:

- Reduced overall risk
- Less on-site engineering effort and operation disruptions

- Shorter overall upgrade execution cycle
- Efficient process workflows
- Less downtime and unplanned disruptions
- Improved migration confidence

MODERNIZATION AS A PART OF DAY-TO-DAY OPERATIONS

At Honeywell, our approach to migration services focuses on proactivity; it is no longer good enough to react to pending obsolescence. New tools and processes enable turnkey modernization methods, giving plant operators the ability to push migration projects live from anywhere in the world with minimal impact on day-to-day activities. The goal is to make the process as autonomous as logistically possible, offering real time upgrades that require little to no downtime.

Honeywell's Advanced Migration Technologies bring together the resources and expertise, utilizing on-process system with advantages over traditional "rip and replace" migration services. Honeywell provides an innovative Advanced Migration Technologies (AMT) for Experion® and TotalPlant™ Solution (TPS) users who need to modernize their control

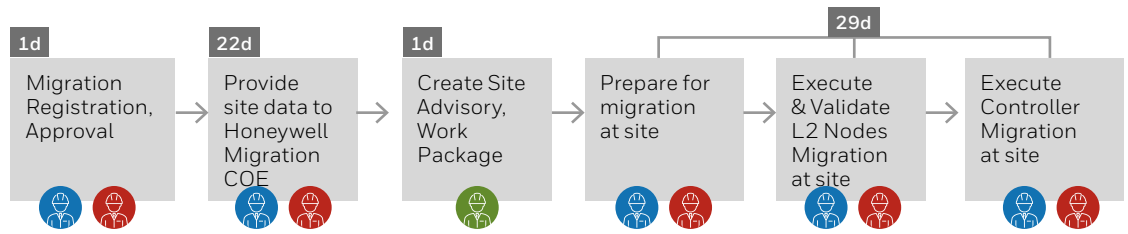
system to the Experion R511.5 and R520.2 or later. Our Global Migration Support Center (GMSC) feature experts ready to perform control and safety system upgrades on a 24/7 schedule. Honeywell employs the Experion Migration Assistant (EMA) and data aggregator tool to collect relevant configuration items for review.

The EMA provides a single location for all interactions between the customer and Honeywell for Experion migration. It allows 24/7 user updates and easy migration request generation for Honeywell's Global Migration Support Centre (GMSC) review and escalation to its Global Technical Assistance Center (GTAC). An intuitive dashboard shows the status of the migration project, and a single tool handles all pre-migration readiness data collection.

The Advanced Migration Technologies offer Experion L2 node migration on an off-site basis with only the deployment of migrated images done on site. The remainder of the controller upgrade and I/O flashing is done at the facility.

MIGRATION AT SITE

Typical project Cycle
70 calendar days

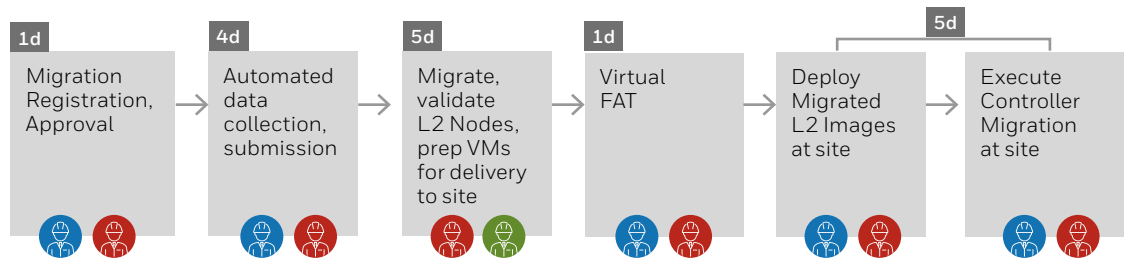


3.5X Faster Cycle,
50% Less Customer Effort

GMSC Pole HUBS

GMSC/AMT MIGRATION

Typical project Cycle
20 calendar days



Advanced Migration Technologies provide the Tools, Processes, and Infrastructure for highly-automated, robust deliveries.



Field Service Engineer



GMSC Expert Hubs with integral Migration COE/GTAC



Customer



Typical Cycle Time

Figure 1: Traditional Migration vs. Migration using Advanced Migration Technologies(AMT) and GMSC

HOW DOES ADVANCED MIGRATION DIFFER? ARE YOUR SYSTEMS READY FOR THE TRANSITION?

Advanced Migration Technologies is designed to make the migration process a natural part of a plant's operations. This is achieved by first addressing safety, security, and compliance concerns. That is where the GMSC make the real difference. Where needed, Honeywell experts are available 24/7 to offer quality assurance and oversight.

WITH HONEYWELL'S HELP, CONTROL SYSTEM END USERS CAN:

View the Control Architecture

Using advanced software solutions such as Honeywell's System Inventory Tool (SIT), industrial firms can gain a better understanding of the starting point for controls upgrades. The tools provide a clear picture of the control architecture and its key components and show the interactions between different elements of the system.

Determine Existing Assets

The SIT collects asset data, which is then hosted in a secure Honeywell data center for easy viewing through a System Inventory Portal. Users gain insight into the hardware components in each control system, thus avoiding lengthy delays to gather the right information when the system needs to be supported or expanded.

Collect Relevant Data

Honeywell employs a powerful data aggregator tool to collect relevant

configuration items for review. The Experion Migration Assistant customer portal and data collection has been enhanced to detect database inconsistencies. This solution minimizes on-site activities during the entire migration process.

Visualize the Entire System

Providing customers with the ability to visualize the entire control system database in one view increases awareness, which, in turn, leads to better decision making.

Upgrades can be done without production system shutdown and preserving intellectual property.

Optimize Test Procedures

Honeywell engineers perform the software migration and then invite the end user to test the new software release. The Configuration Acceptance Test is the customer's way of approving the new release prior to introducing it into their production system. This service also allows Factory Acceptance Testing (FAT) and Site Acceptance Testing (SAT).

Minimize Potential Errors

Honeywell's Advanced Migration Technologies minimizes potential risk and errors in migration of the customer's production system, and instead relies on our datacenter to enhance operational safety, reliability, and availability.

Prepare for New Opportunities

Honeywell customers that migrate to a modern system can integrate control, safety, and auxiliary systems. And, they can respond to new business opportunities, expand capacity, and make use of new applications and solutions for advanced process control, asset management and production management.

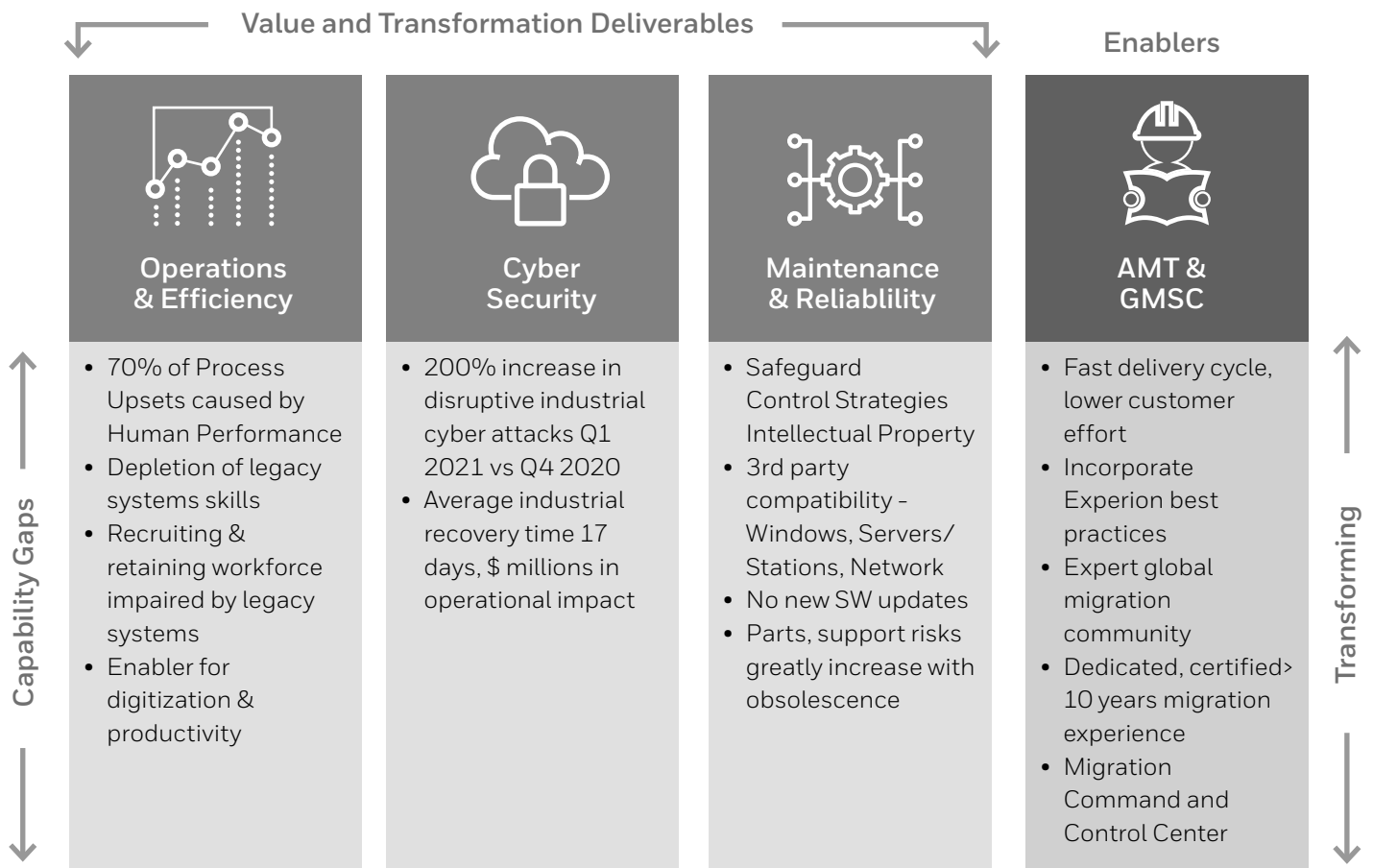


Figure 2: AMT and GMSC migration will reduce effort, fasten cycle time with global support

HOW ADVANCE MIGRATION SUPPORTS A MODERN MANUFACTURING OPERATION

The industry is evolving. Manufacturers no longer have to delay their technology initiatives due to unforeseen disruptions to normal operations; beyond traditional on-process migration, the latest technology advancements allow them to perform system modernization just like a simple update. They can also leverage value-added support without putting their personnel or plant at risk.

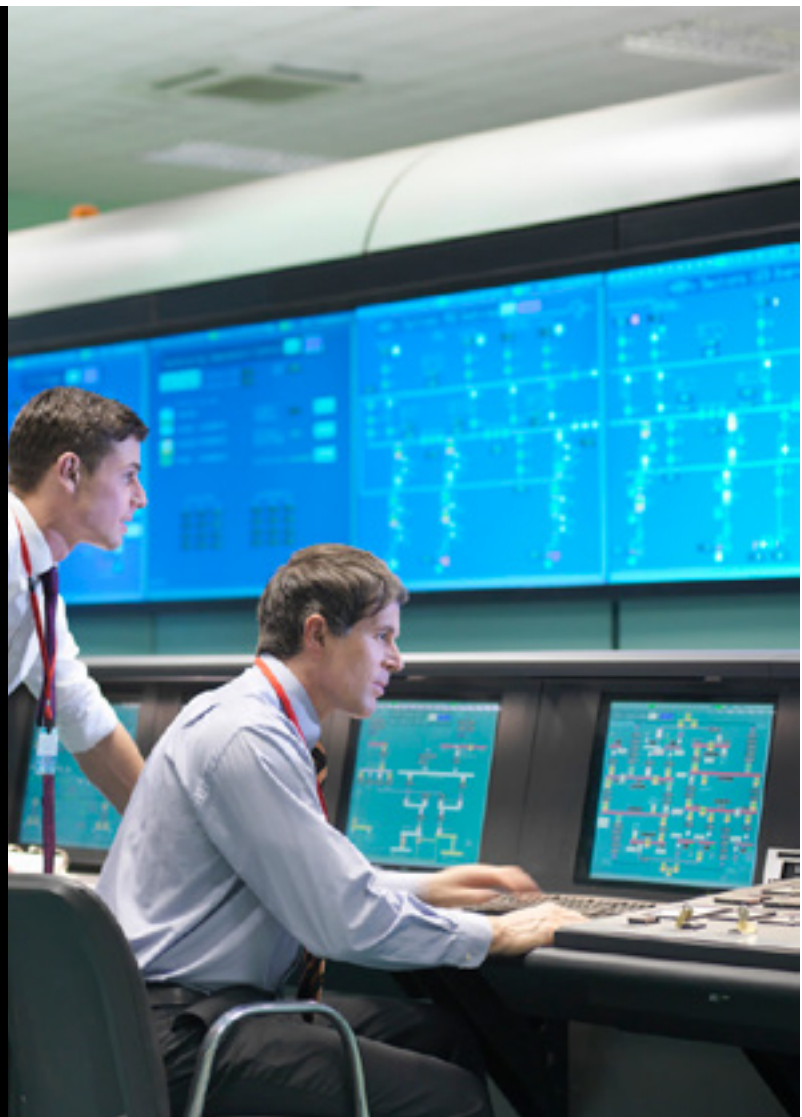
Advanced Migration Technologies and GMSC engagement have reduced the end-to-end migration cycle for some customers by 50%. Customer feedback includes appreciation for reduced migration effort and praise for easier and faster migrations.

NOW'S THE TIME TO UPDATE YOUR SYSTEM

With severe challenges making it harder run plants efficiently, profitably, and safely, industrial organizations can rely on innovative technologies to leverage their workforce and control assets to keep their businesses moving forward.

With Honeywell's Advanced Migration Technologies, essential control system upgrades can be integrated into day-to-day operations. Plants can deploy advanced solutions to enhance their operations and improve their business results.

Contact Honeywell to get started with Advanced Migration Technologies today.



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FUTURE
IS
WHAT
WE
MAKE IT**

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