Prepare for operational and business excellence.

Today’s global marketplace puts ever-increasing demands on industrial manufacturers. With fewer resources and growing competitive pressures, you need a comprehensive approach to solving your automation lifecycle needs. Honeywell’s integrated approach to main automation contracting project execution helps you quickly reach first and full production with the lowest possible risk. This holistic approach addresses plant-wide integration and optimization at all levels of your enterprise and prepares your company for operational and business excellence. Honeywell is committed to protecting your investment through the entire lifecycle of your facility. Honeywell provides the knowledge to integrate project management, operations, automation, information management, security and maintenance—all in a safe and secure environment. With enabling innovative technology and services, our strategy goes beyond reducing your project risk and compressing your schedule; it extends into optimizing your entire operation, business performance and automation lifecycle.

Honeywell’s Integrated Main Automation Contractor Execution Excellence

Honeywell maintains strong relationships with global EPCs, prime contractors, subcontractors and other strategic business partners. Our proven ability to integrate and interface with project team members provides the right resources to meet both project execution and lifecycle requirements. Honeywell’s integrated approach results in more robust designs and reduces risk to higher value segments of a project. Our contracting services reduce bidding, selection, negotiation and associated contract execution impact, while building operational excellence into your facility design. Honeywell works flexibly with EPCs and owner-operators to provide the ideal execution strategy. For example, Honeywell can serve as a high-level or middle-level contractor and has partnered with multiple EPCs on a single project.

Our global methodology and knowledge management combine the best tools from proven sources and experience. For example, we utilize innovative tools and processes, such as the NetCord database management system, to maintain consistency and standardization during all stages of execution. Honeywell establishes partnerships to deliver value at all levels of the automation scope. Our P3S Advantage™ program engages other first-class automation suppliers to deliver open, integrated process knowledge solutions using the field equipment, software and associated services customers deem most appropriate for their operations. And, partnerships with companies like IBM and Microsoft provide our customers with resources and value for operational and business readiness.

For More Information

To learn more about how Honeywell’s IMAC methodology can improve your automation lifecycle, visit www.honeywell.com or contact your Honeywell account manager.

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Honeywell Integrated Main Automation Contractor

Value for All Automation Stakeholders

With Honeywell’s broad experience working with EPC firms, our contracting services and innovative technology help mitigate project risk and increase the business value of systems. The IP3S program is designed to deliver value at all points of interface. Best of all, we help reduce capital equipment, installation and lifecycle costs while maximizing the value of these investments. Honeywell offers you the benefits you achieve benefits not only during your project life, but also during ongoing operations. Benefits reach beyond reducing your project risk and connecting your schedule and extend into optimizing your entire plant operations, business performance and automation lifecycle.

An Integrated Approach to Reaching First Production and Optimizing the Automation Lifecycle

Execution Excellence

Honeywell maintains strong relationships with global EPCs, prime contractors, subcontractors and other strategic business partners. Our proven ability to integrate and interface with project team members provides the right resources to meet both project execution and lifecycle requirements. Honeywell’s integrated approach results in more robust designs and reduces risk to higher value segments of a project. Our contracting services reduce bidding, selection, negotiation and associated contract schedule impact while building operational excellence into your facility design. Honeywell works flexibly with EPCs and owner-operators to provide the ideal execution strategy. For example, Honeywell can serve as a high-level or middle-level contractor and has partnered with multiple EPCs on a single project.
Prepare for operational and business excellence.

Today’s global marketplace puts ever-increasing demands on industrial manufacturers. With fewer resources and growing competitive pressures, you need a comprehensive approach to solving your automation lifecycle needs.

Honeywell’s integrated approach to main automation contracting project execution helps you quickly reach first and full production with the lowest possible risk. This holistic approach addresses plant-wide integration and optimization at all levels of your enterprise and prepares your company for operational and business excellence. Honeywell is committed to protecting your investment through the entire lifecycle of your facility.

Honeywell provides the knowledge to integrate project management, operations, automation, information management, security and maintenance—all in a safe and secure environment. With enabling innovative technology and services, our strategy goes beyond reducing your project risk and compressing your schedule; it extends into optimizing your entire operation, business performance and automation lifecycle.

**Execution Excellence**

Honeywell maintains strong relationships with global EPCs, prime contractors, subcontractors and other strategic business partners. Our proven ability to integrate and interface with project team members provides the right resources to meet both project execution and lifecycle requirements. Honeywell’s integrated approach results in more robust designs and reduces risk to higher value segments of a project. Our contracting service reduces bidding, selection, negotiation and associated contract schedule impact while building operational excellence into your facility design. Honeywell works flexibly with EPCs and owner-operators to provide the ideal execution strategy. For example, Honeywell can serve as a high level or mid-level contractor and has partnered with multiple EPCs on a single project.

**Value for All Automation Stakeholders**

With Honeywell’s broad experience working with EPC firms, our contracting services and innovative technology help integrate project risks and decrease the likelihood of system failure at key points of interface. Best of all, we help reduce capital equipment, installation and lifecycle costs while maximizing lifecycle value. Honeywell helps you achieve benefits not only during project startup but also during ongoing operations. Benefits reach beyond reducing your project risk and compressing your schedule and extend into optimizing your entire plant operations, business performance and automation lifecycle.

For More Information
To learn more about how Honeywell’s I-MAC methodology can improve your automation lifecycle value, visit www.honeywell.com/ps or contact your Honeywell account manager.

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**Experion, UniSim, Abnormal Situation Management and TDC 2000 are registered trademarks of Honeywell International Inc.**

**OneWireless and PKS Advantage are trademarks of Honeywell International Inc.**
Honeywell’s integrated main automation contractor (I-MAC) approach leverages the foundational benefits of traditional MAC with seamless integration into the broader automation landscape to securely meet operational and business objectives. The result is an integrated strategy from the field to the boardroom that delivers value during the entire life of your asset. By helping you securely meet operational and business objectives, the Honeywell’s I-MAC approach creates value in every project phase, such as:

- Minimize change orders to less than 1% of total project value
- $1.2M in construction redesign savings
- 28 engineering centers
- 2,000+ global MAC projects executed
- Partnerships with base-case facilities or periodically upgrade your system to ensure that the operating environment is optimized for safety.
- Integrating our collaborative approach to lifecycle support includes providing customers with measurable benefits from on-site and remote support services, enabling them to meet the challenges of total plant communications.
- Consistent with this lifecycle support philosophy, our TDC 2000® distributed control system, as well as our platform process control system, Experion®, deliver a complete, seamless platform providing the foundation for integrating all process control and safety systems, including non-Honeywell systems, and automation software under a single architecture.

In addition, our simulation solutions can design knowledge into operations, helping operators visualize future plant behavior to improve decision making and plant safety.

Honeywell’s safety system is operationally consistent, and that the operating environment is optimized for safety.

Incorporating recommendations from the Abnormal Situation Management (ASM) Consortium, Honeywell products and consulting services ensure help that alarm systems perform effectively, that procedures are executed correctly and consistently, and that the operating environment is optimized for safety.

Honeywell’s capabilities in both building and process control automation provide your organization with models across the enterprise to ensure management safety, safety monitoring and real-time location. Our building control system and process control system share the same architecture and tightly integrate physical and cyber security into a single platform. Combined with the other earning cyber security services, and deliver a team to provide you with multi-layered protection against security threats.

For the intact project, Green LAG required support from a world-class vendor to help us meet a very demanding schedule. We also needed an activation partner that we could rely on for the next 50 years. Honeywell has proven it can deliver high-quality, reliable solutions, as well as provide the 24/7 sales service to meet our stringent standards for safety and performance.

—Fred Johnson, Projects Manager, Green LAG
Integrating the MAC approach:

- Honeywell's integrated main automation contractor (I-MAC) approach leverages the foundational benefits of traditional MAC with seamless integration into the broader automation landscape to securely meet operational and business objectives. The result is an integrated strategy from the field to the boardroom that delivers value during the entire life of your asset. By helping you reduce overall project risk, accelerate production schedules and improve operational efficiency, Honeywell delivers the industry's best total lifecycle value.

- Honeywell's strategic approach to applying wireless-enabled applications helps reduce time and cost to install field-device and operator tools. Honeywell's wireless applications deliver more value than just avoiding wiring costs, improving safety, reliability and productivity while ensuring regulatory compliance.

Verticaly-focused solutions meet the needs of specific industries. For example, hydropower processing customer benefit from integrated I-MAC solutions, providing a single-source capability to drive down investment cost and project timing. In addition, pharmaceutical customers benefit from easier and faster compliance with regulations.

For the ideal project, Honeywell I-MAC required support from a world-class vendor to help us meet a very demanding schedule. We also needed an activation partner that we could rely on for the next 30 years. Honeywell has proved it can deliver high quality, reliable solutions, as well as excellent post-sales service to meet our stringent standards for safety and performance.

—Paul Johnson, Projects Manager, Grain LNG
Reduce risk with an integrated MAC approach.

Honeywell’s integrated main automation contractor (I-MAC) approach leverages the foundational benefits of traditional MAC with seamless integration into the broader automation landscape to securely meet operational and business objectives. The result is an integrated strategy from the field to the boardroom that delivers value during the entire life of your asset. By helping you reduce overall project risk, accelerate production schedules and improve operational efficiency, Honeywell delivers the industry’s best total lifecycle value.

Vertically focused solutions meet the needs of specific industries. For example, hydropower processing customers benefit from integrated ICP solutions, providing a single-source capability across the entire project life cycle, from early in front-end engineering development (FEED) procurement contractors (EPCs) and other contractors, subcontractors, engineering and aligned objectives between prime greenfield projects demands cooperation to reduce overall project risk, accelerate production schedules and improve operational efficiency.

Honeywell’s I-MAC capabilities integrate industry-leading technology, such as Honeywell’s simulation, operator training and advanced control modeling solutions to enable faster design and validated processes while optimizing the entire plant lifecycle. These advanced applications help validate future process behavior, and improve decision-making and performance. Users can develop advanced control, conduct tests and verify their strategies within the simulation environment to reduce risk and accelerate payback by an average of six months. Using these tools in the design phase also seamlessly transfers essential knowledge into the operations phase.

In addition, our simulation solutions carry design knowledge into operations, helping operators visualize future plant behavior to improve decision making and plant safety.

To quickly reposition the benefits of an integrated business network, Honeywell’s industrial practices, integrated flow and gas detection, lower the cost of safety and reduce the risk of incidents. Our safety system is operationally integrated with our automation and business networks, allowing real-time knowledge collaboration across the supply chain for increased productivity and total business optimization. Our enterprise-wide MES applications enhance advanced planning and scheduling, and blending and movement automation, as well as operations, performance and production management.

Incorporating recommendations from the Abnormal Situation Management (ASM) Consortium, Honeywell products and services can help ensure that alarm systems perform effectively, that procedures are executed correctly and consistently, and that the operating environment is optimized for safety.

Honeywell’s capabilities in both building and process control automation provide your organization with models across the entire lifecycle, from engineering to day-to-day operation. Our building control system and process control system share the same architecture and tightly integrate physical and cyber security into a single platform. Combine that with our advanced cyber security services, and we are able to provide you with multiple layers of protection against security threats.

Honeywell delivers bottom-line results for our customers and helps the operator to accelerate the design process and secure a win in the competitive bidding. Our industry experts look for opportunities to reduce capital in every project phase, such as:

- Reduce total installed cost by 25%
- Minimize change orders to less than 1% of total project value
- Shorten project schedule by six months

Honeywell’s Laydown Approach to Plant Safety

Manufacturing

- Asset Management

- Performance Reporting

- Effective Operating Environment

- Plant Safety

- Emergency Management

- Safety

- Emergency Response

Honeywell’s Laydown Approach to Plant Safety

Integrated Construction and Lifecycle Support

Honeywell helps you realize a better return on your project investment over the entire lifecycle, efficiently transferring and protecting knowledge to help you maintain or potentially upgrade your system to tomorrow’s technology. Honeywell’s record of delivering innovative products and services that add value to existing installations reinforces our commitment to protecting your investment.

With a focus on transitional excellence, our approach to commissioning and project support help our new facilities seamlessly transition from construction to operations. Our collaborative approach to lifecycle support includes providing customers with measurable benefits from on-site and remote support services, enabling them to meet the challenges of total plant commissioning.

Consistent with this lifecycle support philosophy, our TDC2000 distributed control system (DCS) platform is connected to each other and to Honeywell’s dynamic incident avoidance platform providing an innovative operator display environment. Operators can see an open, seamless platform providing the foundation for integrating all process control and safety systems, including non-Honeywell systems, and automation software under a single architecture.
Prepare for operational and business excellence.

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