

## Profit™ Suite

Process optimization and asset performance, from the control layer, scalable up to site-wide and enterprise level.



In today's globally competitive marketplace, industrial plants are looking at new ways to increase process efficiency, production rates, safety and reliability.

Without effective solutions for advanced control and optimization, facilities are run conservatively due to fear of causing shutdowns or operating problems. Many plants lack engineering knowledge and practical tools to provide continuous insight from an economical to a process control performance standpoint for model predictive control (MPC), regulatory loop monitoring, and controller tuning.



# What is Profit™ Suite?

Honeywell Profit™ Control and Optimization enables plants to meet the challenges of competitive pressure, regulatory demands and an aging workforce to deliver safer, more reliable and efficient operations. Our Profit Suite lets you capture knowledge, drive best practice across shifts and sites, and ensure the continuous improvement your operational needs.

## THINK OF THE OPPORTUNITIES:

- Reduce operating variability
- Improve production throughput
- Enhance product quality
- Increase plant reliability
- Lower maintenance costs

**It's Possible with Profit**

## Requirements for a Productive Plant



### Optimize Operations

Achieve the optimal operating point to run at peak capacity, while maximizing efficiency and safeguarding assets.



### Improve Stability

Ensure safe, stable operation and a solid foundation for plant optimization.



### Sustain Performance

Improve control system and plant health with in-depth analysis and full visibility of the entire operation.

## Achieve an Operational Advantage

Today, it's more important than ever for industrial plants to stay within limits and safety constraints, and at the same time, deploy solutions to realize consistently excellent operations supported by strategies for a low lifecycle cost.

## Real Results for a Better Business

Advanced control and optimization can play an important role to improve the profitability and stability of refineries, chemical plants and other facilities. However, real-time optimization also imposes challenges on operating companies – emphasizing the need for best-in-class technology, proven industry experience, and expert application know-how.

With more than 25 years of proven success in the field, Honeywell Profit Suite meets unique operating requirements across a wide range of applications. Providing a modular solution for complex problems, this combination of control optimization and performance monitoring software enables users to benefit from fast implementation and a return on investment usually in less than six months. Profit Suite is part of the Honeywell Connected Plant portfolio, which includes robust applications that help in optimizing operations and predicting plant failures – thus enabling better safety, efficiency and profitability.

# Integrated Solutions for Advanced Control and Optimization

Profit Suite is a unique and comprehensive collection of advanced multivariable control and optimization products and performance services. These innovative solutions and cloud-enabled performance services deliver robust stability and industry-leading optimization for the largest and smallest projects.

Are you ready for a single, consistent technology platform that combines model predictive control (MPC) with powerful real-time optimization in a suite of products that meets your needs for regulatory loop monitoring, APC monitoring and tuning?

Profit Suite's flexible and scalable solutions address process-specific problems and help lower lifecycle costs, while easy implementation enables faster ROI and other bottom-line benefits that can be sustained as skill sets and workforce capabilities change. Customers can choose from on-premises or cloud-hosted solutions, depending upon their unique application requirements.

## PROFIT SUITE

- Profit Controller
- Profit Optimizer
- Profit Executive
- Profit Sensor Pro
- Profit Stepper
- Honeywell Connected Plant Profit Performance Monitor
- Honeywell Connected Plant Control Performance Monitor
- Taiji PID



### PROFIT CONTROL

Eliminate variability for more stable and reliable process performance

- Deploy APC algorithms to ensure equipment operates within defined limits
- Capture skilled operators' insights and expertise
- Drive best practices across the organization
- Push the process toward consistent, optimum operation
- Sustain long-term control improvements



### PROFIT OPTIMIZATION

Coordinate the plant optimization model with APC control models across your site

- Integrate LP, APC solutions in a unified optimization framework
- Control product inventories, manufacturing activities, and product quality
- Reproduce off-line planning optimization online and in real time
- Optimize intermediate component production
- Increase flexibility to handle new feed



### PROFIT MONITORING

Understand what limits APC applications from driving units to realize their best potential

- Quantify APC benefit erosion due to disturbances or equipment issues
- Utilize connected assets to determine how well APC is performing across the plant
- Determine how unit performance can be improved to increase profitability
- Identify lost opportunity cost and asset performance on a real-time basis
- Prioritize top process variable sources of economic impact



#### INTEGRATED AND EASY TO USE:

- Multivariable predictive control
- Soft sensor calculations
- Optimization
- Tuning and maintenance
- Performance monitoring

#### Put It Together with Profit

## Solutions to Meet Today's Demands



### PROCESS CONTROL

Multivariable control algorithm that balances performance, robustness and process economics

- Reduced process variability
- Increased throughput
- Improved energy savings
- Enhanced product quality
- Reduced analysis time



### PLANT OPTIMIZATION

Real-time optimization tool that goes beyond typical APC boundaries to provide site-wide benefits

- Enhanced gate-to-gate optimization
- Increased production yields
- Lower feed costs
- Reduced catalyst and chemical usage
- Improved financial returns



### PERFORMANCE MONITORING

Cloud-based solution that identifies performance degradation and helps maintain unit profitability

- Improved stakeholder collaboration
- Better constraint management
- Fewer process bottlenecks
- Increased APC benefits
- Expanded profit visibility

# Benefits to Process Plants

From the control layer to site-wide and enterprise optimization and performance services, Honeywell's Profit Suite enables industrial facilities to achieve and maintain excellent operations.

Cut overall variability up to

**50%**

Increase throughput up to

**3%**

Improve energy savings up to

**5%**

Increase uptime up to

**30%**

**IMPROVE  
PRODUCT  
QUALITY**





## Why Honeywell?

Honeywell's Profit Technologies are used in more than 500 major processing units and over 3,500 control applications worldwide. Over the last two decades, we have provided customers with combined advanced control and optimization benefits exceeding US \$5 billion. Honeywell customers include the biggest names in oil and gas, refining, pulp and paper, mining and materials, and chemicals.

All Profit software is supported by a robust and transparent development roadmap, guided by customer feedback. Combining market leading software and in-depth expertise, Honeywell also offers full services and support throughout the lifecycle. A true partner for your business, our worldwide network of local support combined with Six Sigma processes ensure we complete and implement projects faster.

Whether it's engineering support, optimization advice, training or maintenance programs, Honeywell has the experience, resources and technical experts worldwide to get the most from your software investments.

Profit™ is a registered trademark of Honeywell International, Inc.

**For more information**

To learn more about Honeywell's Profit Control and Optimization solutions, visit [www.honeywellprocess.com](http://www.honeywellprocess.com) or contact your Honeywell account manager.

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