

Honeywell Trace™

Product Information Note

Honeywell Trace™ software increases operational effectiveness and productivity. Trace documents a holistic view of process control data flow, considering system dependencies and all associations. With each snapshot, Trace's smart change detection captures changes made in day to day operations providing users the complete information they need to operate and avoid issues and potential shut downs when making modifications.

Honeywell Trace™ system configuration connections and references for maximum insight

Trace documents your system configuration, helps manage and document changes by capturing system information, configuration settings, and performance conditions. It is an essential tool for all those who continuously engineer their control systems or seeking to improve compliance, reduce configuration errors, and spend less time and effort in project planning.

Honeywell Trace™ captures and stores system configuration data at desired intervals, and with most systems taking less than 4-6 hours, users may choose to do so with each shift. With smart change tracking, Honeywell Trace™ proactively detects and records changes, and automatically identifies anomalies to give you the insights you need for smoother, more efficient operations.

Users can quickly retrieve, analyze and compare time-stamped snapshots to identify configuration issues, assess performance impacts or identify and assign hardware status.

Dashboards and visualization tools provide at-a-glance understanding of system set-ups and a powerful but simple parameter search and query. Trend lines and logical network views make it where your assets sit by showing mappings of gateways, loops, and connection properties.



Smart change proves that less is more. Rather than automatically displaying every raw change, leaving it to users to manually filter the data to get the information they want, Honeywell Trace™ aggregates, groups and prioritizes changes to draw attention to those that are abnormal.

Honeywell Trace™ learns. Abnormal changes that continually reoccur and are expected in your operation are automatically recategorized over time. Users can also configure their own changes to ensure they aren't inundated with notifications.

With the ability to zoom in to each parent level as well, users can identify important changes quicker and save time getting the data they need.

Increase availability

- Accelerate trouble-shooting.
- Identify configuration defects and anomalies.
- View system health on-demand.
- Minimize human errors.

Improve performance

- Drive best practices across the enterprise.
- Comply with control system configuration change management requirements.
- Document experienced workers' knowledge.

Unique features

- Record configuration changes every day
- User-defined defects.
- Network and hardware topology views.
- Intuitive searches and queries without SQL.
- Performance reporting to see configuration changes' impacts.
- Live System Performance Monitoring and Alerting

Quantifiable results

- Up to 40% reduction in manual troubleshooting
- Fast data collection ~ 4-6 hours makes daily data capture - always have accurate information available.
- Zero Impact to system during data collection
- 20-50% lower quality assurance project activities.
- Identify productivity savings.

Versatile applications

- Comprehensive documentation management.
- Capture control strategies.
- Support disaster recovery.
- Improve auditing and regulatory compliance.

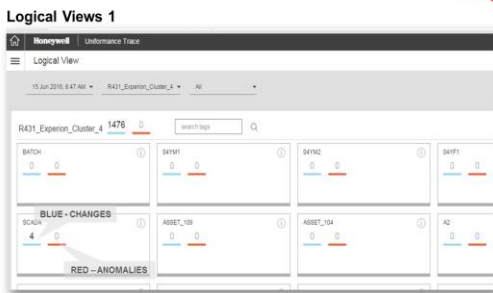


Pictorial presentation of all critical information

Smart dashboards provide at-a-glance understanding of system changes, configuration anomalies, with interactive trend lines

Fast Data Capture, No impact on System Performance: Most systems data capture takes less than 4-6 hours, and sitting at Level 3, Honeywell Trace™ does not write to the control system. System snapshots, searches and data extractions do not impact the engineering system.

Auto Discovery and 3 Ways to View the System: Logical, Network and Hardware Topology Views provide information at your fingertips. Feature identifies port connectivity etc.



Add customize notes on where system anomalies occurred

Views show the plant logically divided with both changes and defects color coded for quick identification



Visually hardware/network relationships & get changes right the first time

Hardware and network views present your system configuration in an intuitive topology and hierarchy design.

Anomaly Detection: Conflicts to User Defined Quality Configuration Standards. Create defect types to view by custom names, character count, and character type. Determine desired common logic for deploying assets. Trace will identify conflicts to those standards as 'Anomalies', providing the opportunity to make changes to comply.

Comprehensive tag references: features graphic, tabular and connection-type views, as well as offers wild card search capabilities.

Smart Change Detection

Built in user defined queries and on demand and scheduled reports: allows users search asset data based on criteria, expressions and output, without SQL scripting. Users can choose to select from lists of available variables or define their own search parameters.

Channel Spares management

Workflow and change management: Allows you to plan the MOC, implement the work, automatically detect changes, and automatically document with ease and confidence. It has graphical workflows and relevant checklist that ensure the proper procedures and precautions were taken throughout the change process.

Real time system performance monitoring and alerting:

Live monitoring of controllers, computers and other network devices viewable on an intuitive dashboard display showing system status (in multiple ways) with drill down capability to view details. Combining the power of Trace's smart change detection with live user configurable alerting and notifications provide troubleshooting insights only available from Honeywell.

On demand system performance reporting: Honeywell Trace™ also provides system health reports, a technology proprietary to Honeywell. Run a performance report after hardware additions or any other configuration changes to rapidly identify all impacts on other system components. Honeywell Trace™ provides top-level metrics and in-depth coverage of control system performance, lifecycle planning, process control performance, alarm benchmarks and safety system auditing.

Share insights and preserve domain knowledge across the enterprise to capture user knowledge, all while increasing productivity. Users can attach files such as warranties, blueprints or schematics to tag reference points.

Customized notes can be made public to share across users, helping capture experienced insights and guide and inform future work and trouble-shooting.

Supported Systems

Honeywell Trace™ supports a wide range of Honeywell customers' installed solutions:

- Experion® PKS System
- TPN/TPS System
- FSC
- Safety Manager
- Triconex
- AB CLX PLCs
- OSIsoft PI and PHD
- SPI / Intool

The Honeywell roadmap for Trace incorporates even more Intellectual Property solutions (Advanced Solutions integration, more useful insights and usability improvements)

Quantifiable results

- Up to 40% decrease in incident troubleshooting time.
- Most sites' data captured in 4-6 hours
- 20-50% lower quality assurance project activities.
- Up to 50% increase in process control engineer/technician productivity

Honeywell Trace™ Package Options

Honeywell Trace™ Packages – Designed to meet your plant needs	Bronze: The Basics you need to Track and Trace your systems' configuration	Silver: Change tracking and insight to Improved productivity and Performance	Gold: Manage workflow and real time system performance monitoring
Value:	<ul style="list-style-type: none"> • Improve day to day efficiency • Reduce costs and overhead • Captures and preserves Intellectual property 	Bronze Value Plus: <ul style="list-style-type: none"> • Monitor unplanned changes • Establish system performance baselines • Improved project planning 	Silver Value Plus: <ul style="list-style-type: none"> • High plant reliability & Incident recovery • Real time system performance monitoring • Improving project execution
Comprehensive Tag Reference Search	X	X	X
Logical View	X	X	X
Hardware View	X	X	X
Network View	X	X	X
User defined queries	X	X	X
On demand and scheduled reports	X	X	X
Change Detection		X	X
Anomaly Identification (Defect Management)		X	X
Channel Spare Management		X	X
On Demand System Performance Reporting		X	X
Workflow and Change Management			X
Live System Performance Monitoring and Alerting			X
Business Network Access	Optional	Optional	Optional
Full Integrated Automation Assessment Report	Optional	Optional	Optional

Honeywell Trace™ R130 Technical Specifications

PARAMETER	SPECIFICATION
PROCESSOR	Two Quad processors, 2.0 GHz (8 cores for the VM) or more
DISK SPACE	500 GB; 15k RPM
MEMORY	32 GB Ram
FREE HARD DISK SPACE	50 GB or more
HONEYWELL TRACE™ SERVER	Dell PowerEdge 330 or Dell PowerEdge 430
	OS Windows Server 2012 R2 (64 bit)
	.Net 3.5 is enabled

Honeywell Trace™ and Assurance 360

Honeywell Trace™ is part of Honeywell's suite of solutions for smart information capture, data sharing and analysis, and competency development.

Honeywell Assurance 360 is a customer-specific program ranging from "Performa" solutions that build and complement competencies and capabilities within a customer's organization to "Optima" solutions fully executed by Honeywell with guaranteed system performance. In support of Assurance 360, Honeywell Trace™ is included in every Assurance 360 Optima agreement and is available for Performa. It is used to automate documentation of tribal knowledge and actions taken on the control system, reduce issue resolution time and troubleshooting, and detect configuration anomalies and changes.

Honeywell Trace™ Software Support

Honeywell Trace™ Software Support provides direct technical support from our global systems and software support teams. It includes:

- Standard phone support
- Service packs and feature enhancements
- Remote access for diagnostics

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Honeywell Process Solutions

1250 West Sam Houston Parkway South
Houston, TX 77042

Honeywell House, Skimped Hill Lane
Bracknell, Berkshire, England RG12 1EB UK

Building #1, 555 Huanke Road,
Zhangjiang Hi-Tech Industrial Park,
Pudong New Area, Shanghai 201203

PIN-16-36-ENG
February 2019
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