November 25, 2019

CONTROLEDGE HC900

KEERTHI ALVA



Honeywell

AGENDA



1. About ControlEdge HC900
2. Target Verticals
3. HW/ SW Features and Specifications
4. New Release Features
5. Future Roadmap

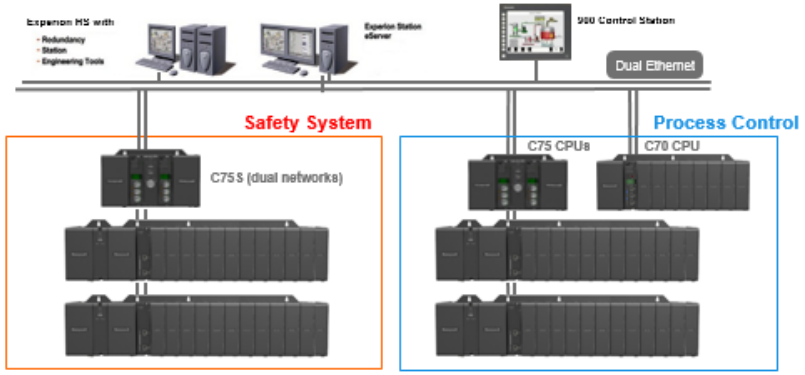
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HC900 PROCESS AND SAFETY

Is a Process Automation Controller (PAC)…



used for process and safety



…used for applications ranging from Process PLCs to DCSs and safety applications



such as BMS, ESD, spill prevention, etc.



Provides Safety and Control

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HC900 NOW IN A NEW LOOK

FROM LIGHT GRAY PLASTICS



NEW BLACK LOOK



“Back in Black”

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HC900 IS NOW CONTROLEDGE™ HC900

CONTROLEDGE HC900 (PROCESS)



CONTROLEDGE HC900 SIL2 (SAFETY)



CONTROLEDGE PLC



CONTROLEDGE RTU

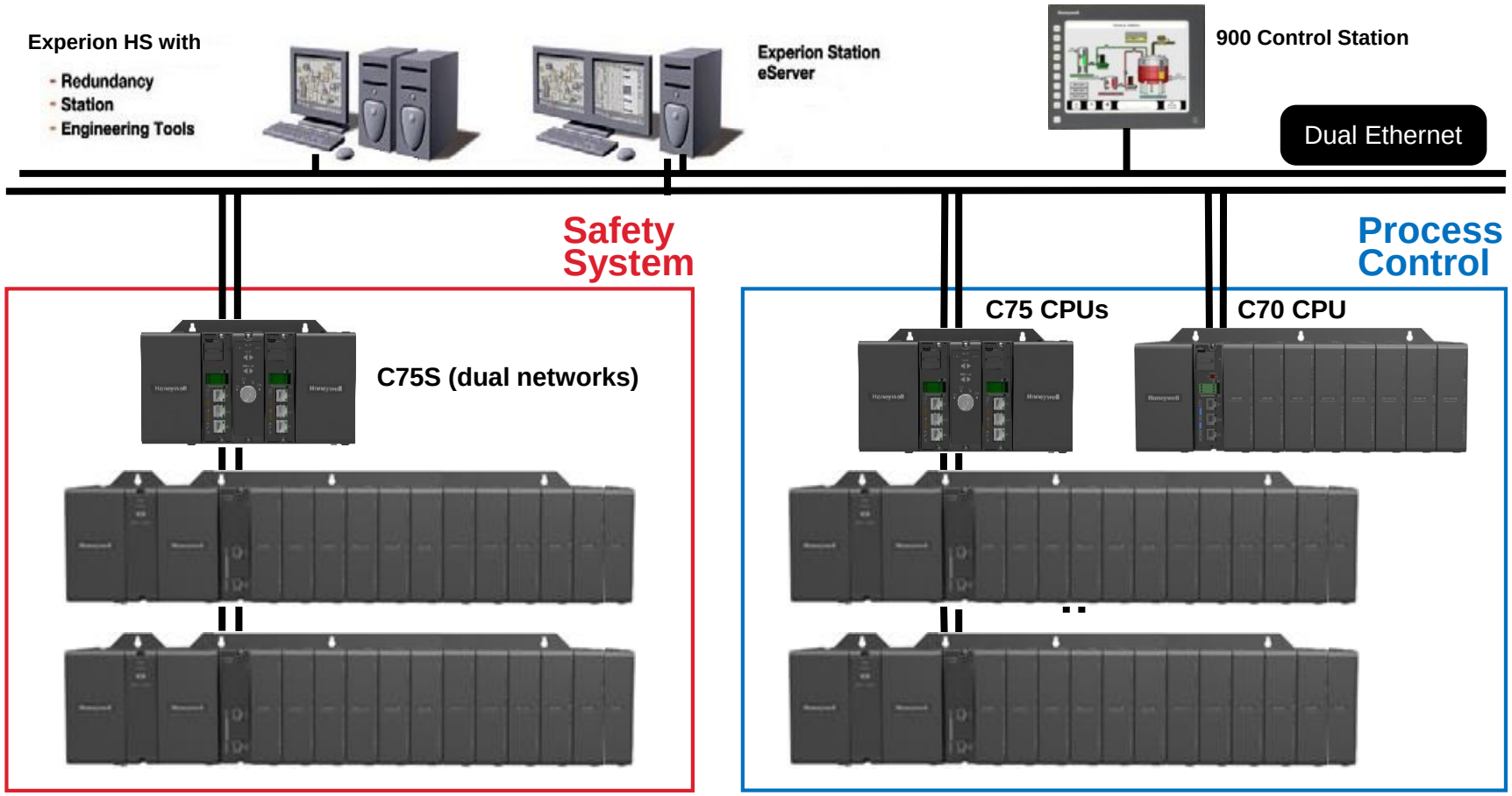


CONTROLEDGE UOC



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SAFETY AND NON-SAFETY IN SEPARATE SYSTEMS

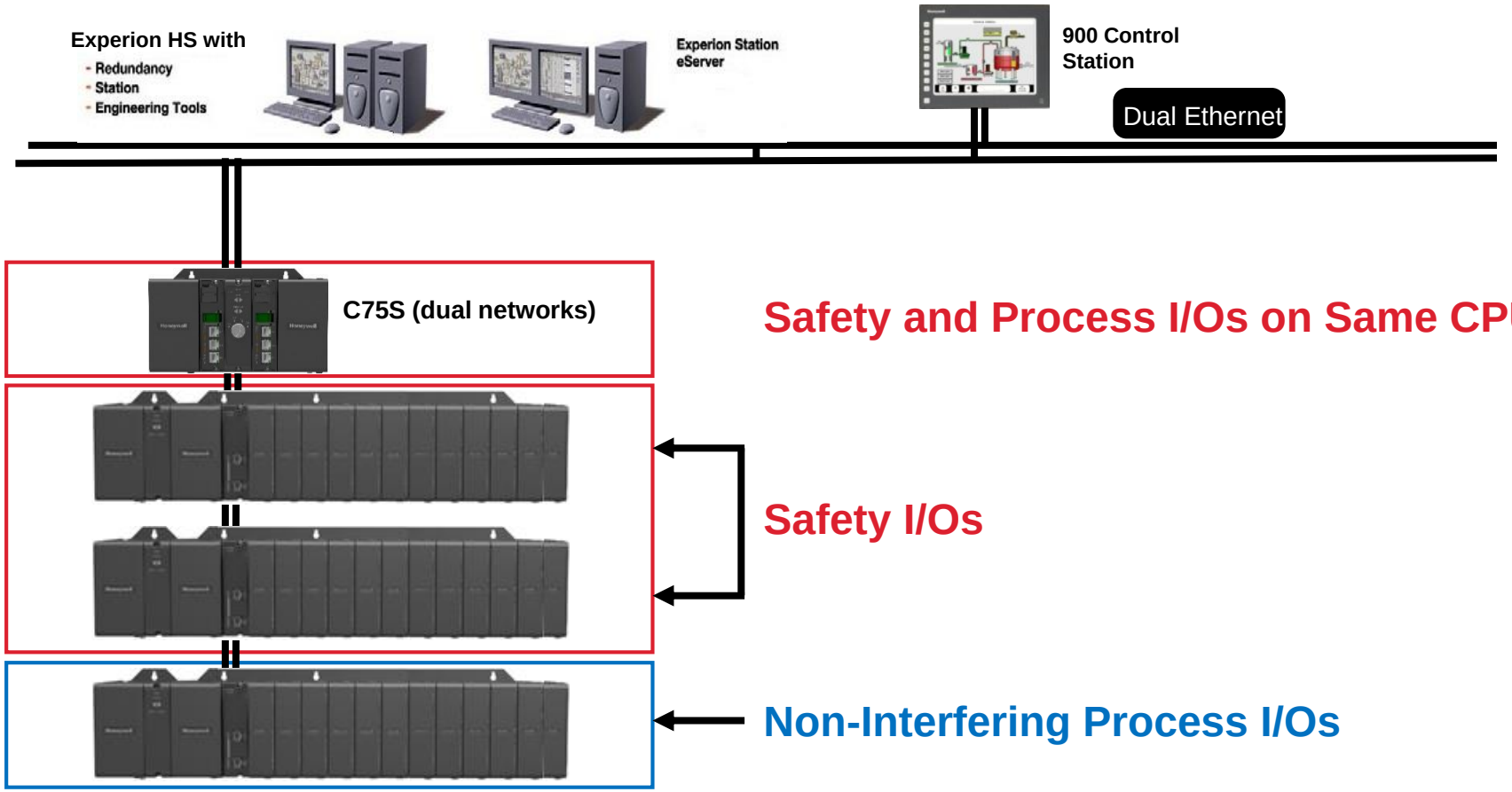


A single flexible system for safety & process control

Faster start-up time, common engineering tools, reduced training, simplified maintenance and lowest cost of ownership

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SAFETY AND NON-SAFETY IN SEPARATE SYSTEMS



Modular, Scalable And Expandable

Safety and Non-Safety I/O's with common CPU

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TARGETING VALUE ADDED APPLICATIONS

TARGET VERTICALS	APPLICATIONS TO FOCUS ON
Mining & Metals	• Furnaces, Oven, Burner Management • Thermal oxidizers, Smelters, Incinerators, Process heaters • Vaporizers
Chemicals/ Pharmaceuticals	• Process Control | Incinerators | Process heaters | Vaporizers
O&G/ Refining	• Pipeline monitoring | Spill prevention | Emergency shutdown
Rail / HVAC / Data Centres / Commercial	• Metro/ Infra Tunnel Ventilation, Lighting Management etc. • Accurate control of temperature and hot spot monitoring • HC900 Accutune III powerful automatic self-tuning algorithm and Fuzzy Overshoot Suppression for optimum PID loop tuning and accuracy
Pulp & Paper/ Food & Beverages	• Process Control
Cement & Glass	• Pre-heaters, Heat Exchangers, Furnaces • Kilns, Reactors, Calciners, Dryers
Power	• Balance of Plant, Cooling Towers, Condenser • Burner Management Systems (BMS) • Combustion control, Boiler Control • Emergency shutdown

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SAFETY SPECIFIC APPLICATIONS- CONTROLEDGE HC900

SAFETY

- Heat Treatment
- Burner Management Systems (BMS)
- Combustion control
- Pipeline monitoring
- Spill prevention
- Emergency shutdown

CRITICAL CONTROL

- Electronics & semiconductor
- Cement
- Glass
- Textiles

APPLICATIONS FOR HEAT TREATMENT SOLUTIONS

- Furnaces
- Boilers
- Pre-heaters
- Kilns
- Ovens
- Reactors
- Calciners
- Dryers
- Thermal oxidizers
- Smelters
- Incinerators
- Process heaters
- Vaporizers

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CONTROLEDGE HC900 – PERFECT SOLUTION FOR PROCESS AND SAFETY

ENHANCES
QUALITY



HIGH PERFORMANCE

- Tighter control
- Accurate Diagnostics
- Fault-tolerant and reliable system

IMPROVES
PRODUCTIVITY



EASIEST TO USE AND ENGINEER

- Simple intuitive tools
- Online maintenance
- Easy integration

MAXIMIZES
PROFITABILITY



LOW TOTAL COST OF OWNERSHIP

- Lowest product lifecycle cost
- Common software tools for Process & Safety
- Same I/O modules for Process & Safety

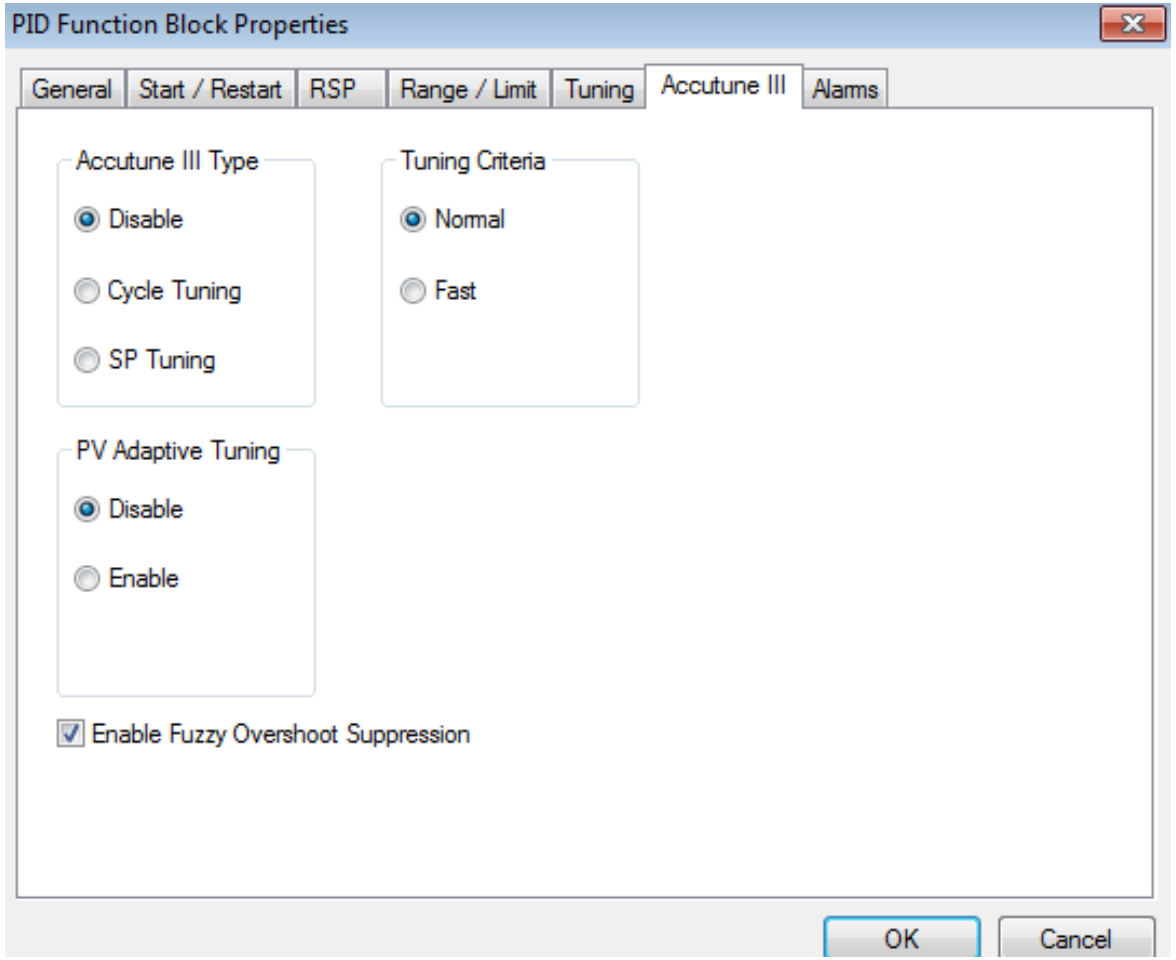
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HIGH PERFORMANCE

TIGHTER CONTROL

Standard fuzzy logic of the HC900

- Prevents process overshoot
- Provides accurate control
- Increases throughput and efficiency
- Minimizes energy costs



Enhances Quality

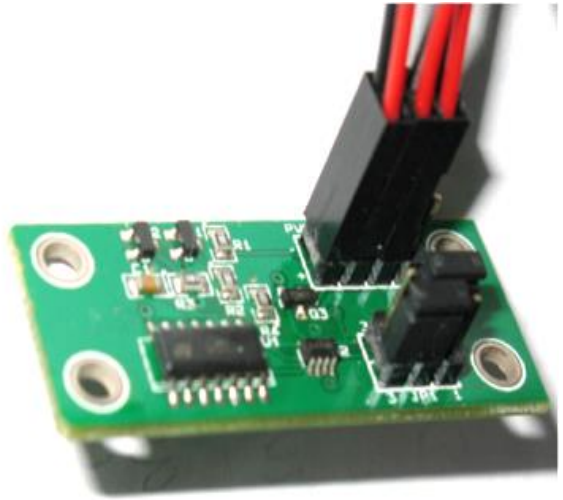
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HIGH PERFORMANCE

ACCURATE DIAGNOSTICS

- Advanced diagnostics at module and channel level that add reliability to system
- Diagnostics, alarms, early detection of sensor failures and system faults
- History backfill





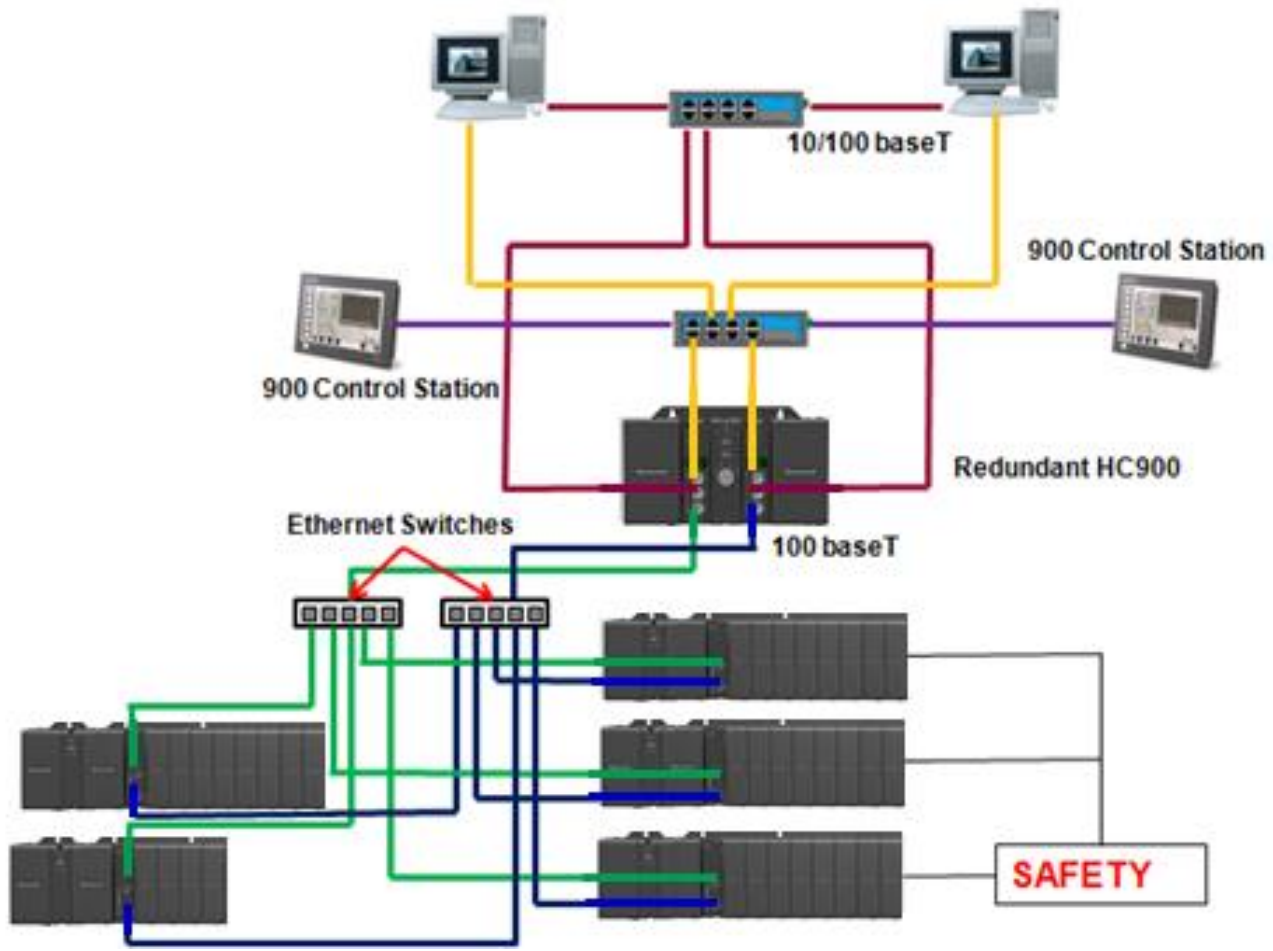
Enhances Quality

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HIGH PERFORMANCE

FAULT-TOLERANT AND RELIABLE

- Keep your system running continuously with redundancy
- Online Configuration, Monitoring, Removal & Insertion under power
- High availability ratings



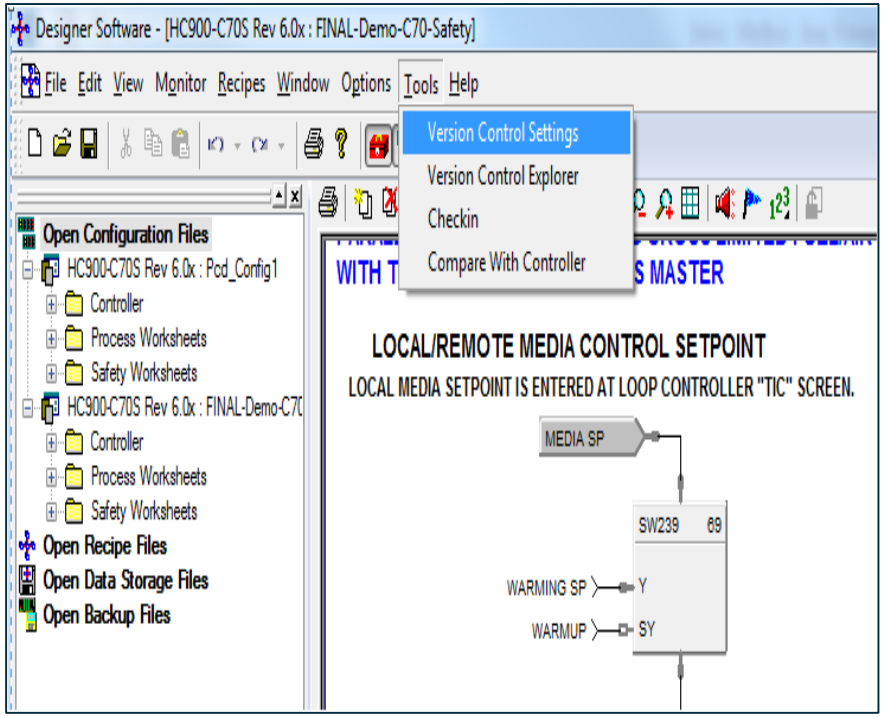
Enhances Quality

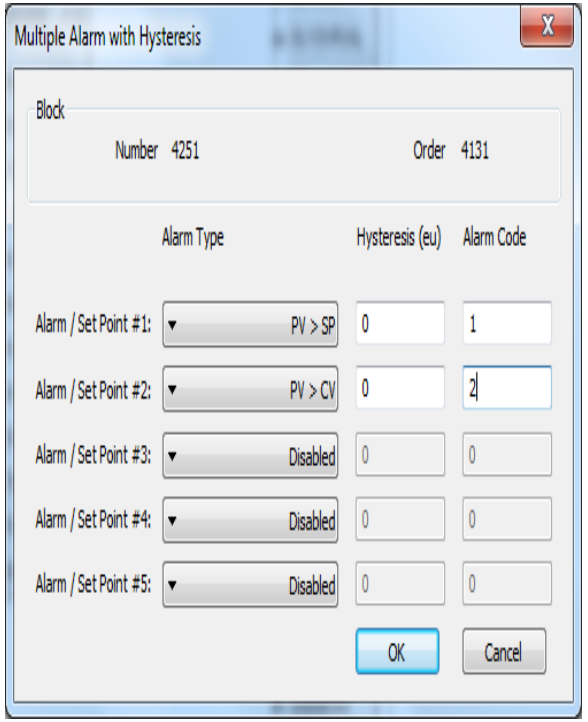
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EASY TO USE AND ENGINEER

SIMPLE INTUITIVE TOOLS

- Easy to engineer using function blocks: Save 10-15% of engineering time
- Version control and change management built into the product
- Application specific function blocks especially for Gas (AGA), furnaces





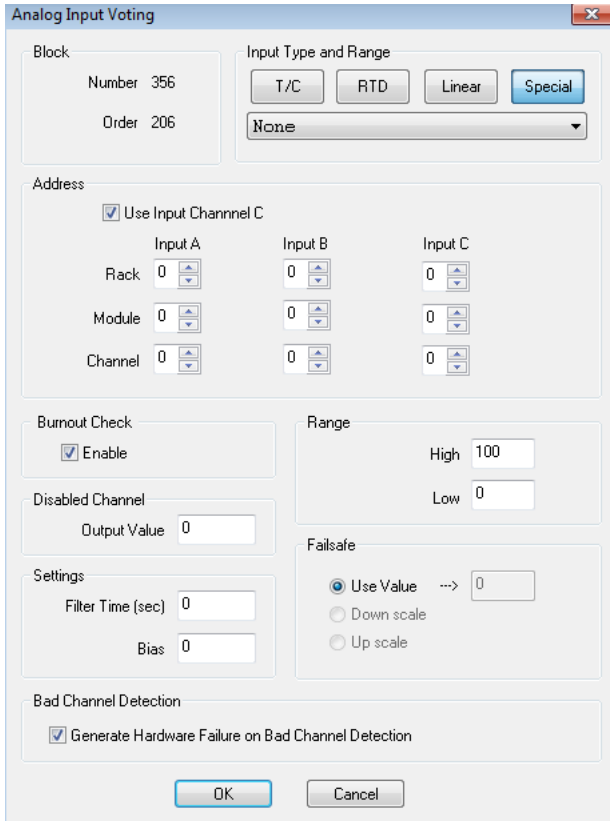
Improves Productivity

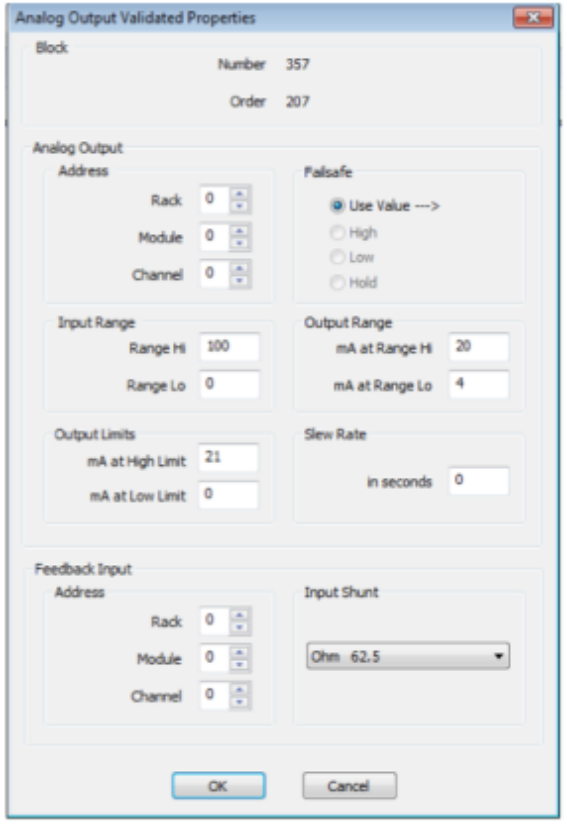
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EASY TO USE AND ENGINEER

ONLINE MAINTENANCE

- Run mode editing with minimal process disturbance
- Online monitoring for debugging and set up





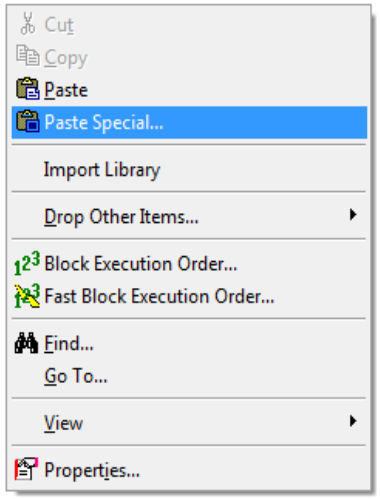
Improves productivity with a running system

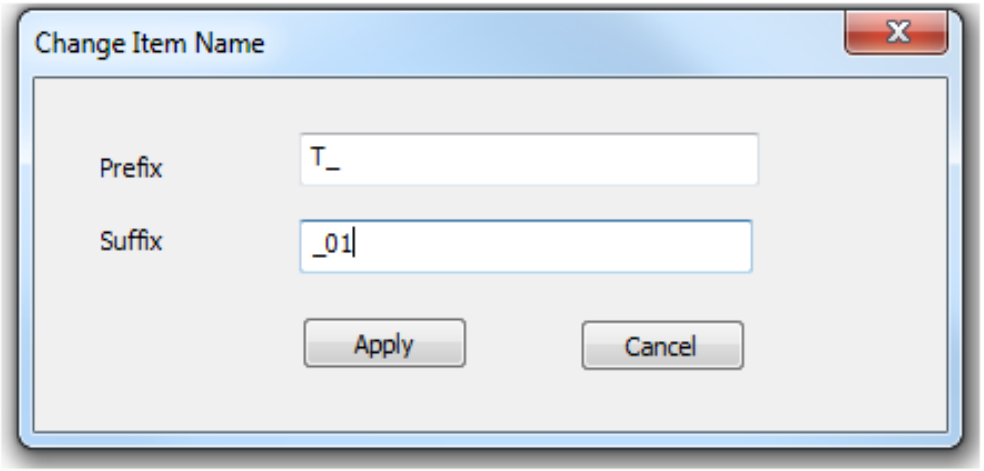
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EASY TO USE AND ENGINEER

CUSTOM LIBRARIES AND EASY REPLICATION FOR OEM'S

- Bulk edit, search and replace
- Copy/Paste special allowing bulk changes which are ideal for OEM's





Improves productivity with bulk changes and easy replication

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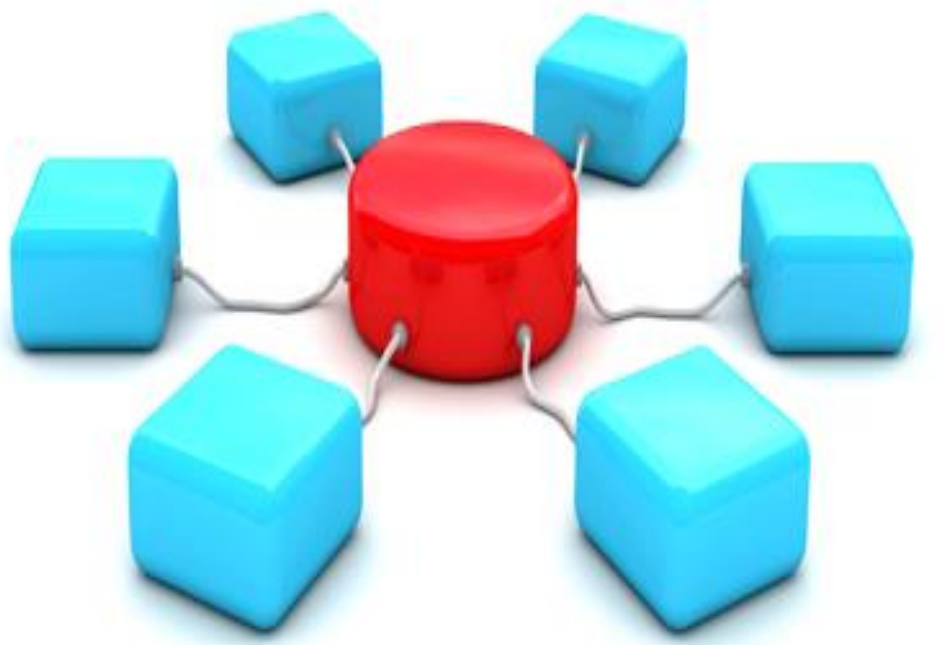
EASY TO USE AND ENGINEER

EASY INTEGRATION

Honeywell integrated products offer a one-stop shop solution

- HMI (900 Control System)
- Experion HS (SCADA Solution)
- Matrikon OPC (3rd Party Integration)*

(*buy separate license from Matrikon)



Improves productivity with lesser time to integrate

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LOW TOTAL COST OF OWNERSHIP

COMMON SOFTWARE TOOLS FOR PROCESS AND SAFETY

- Reduced training costs
- Reduces engineering time and cost



Maximizes profitability with lesser training with common tools

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LOW TOTAL COST OF OWNERSHIP

SAME I/O MODULES FOR PROCESS & SAFETY

- Reduced inventory costs
- Quick replacement of modules maximizes plant uptime

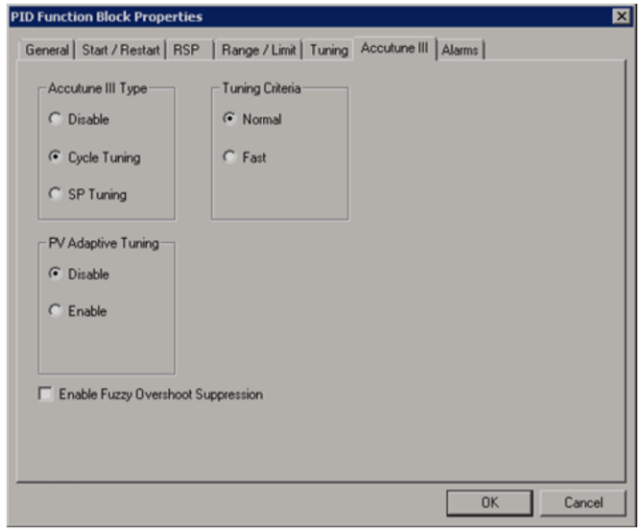


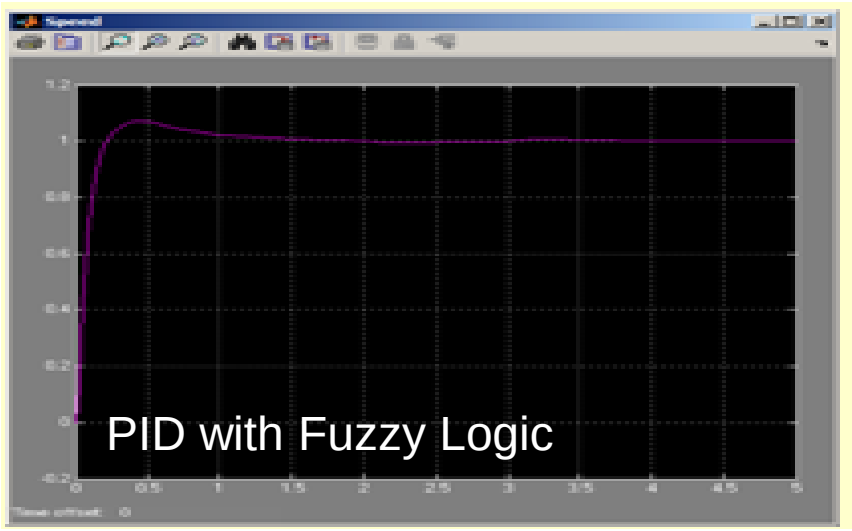
Maximizes profitability with minimal inventory

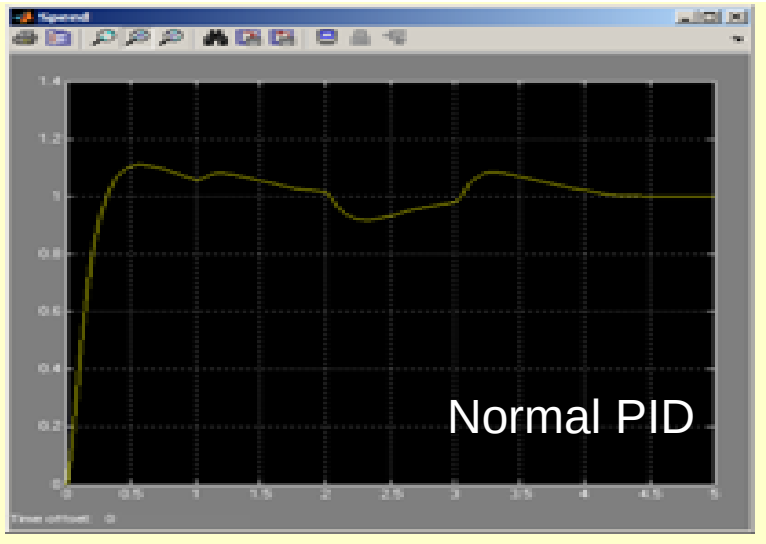
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SOFTWARE FB FEATURES

FUZZY OVERSHOOT SUPPRESSION



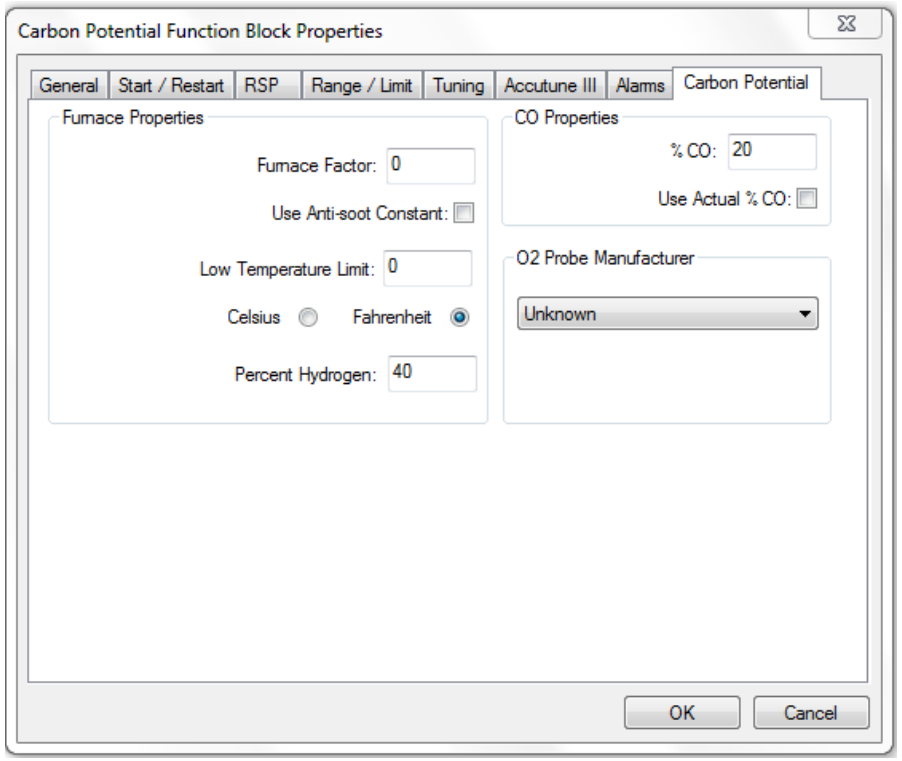


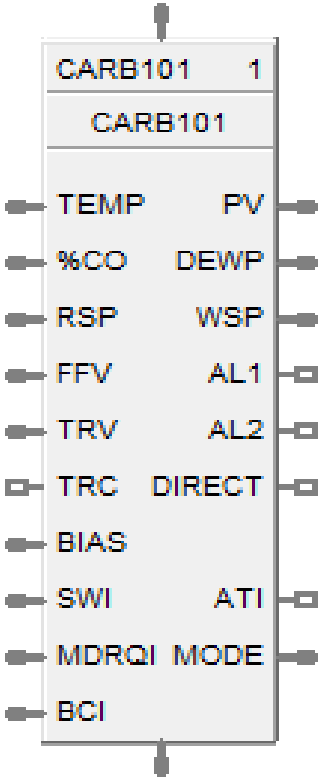


Function blocks that enhance product quality

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CARBON POTENTIAL





Controls the enrichment gas and dilution air into the furnace, thus affecting carbon potential

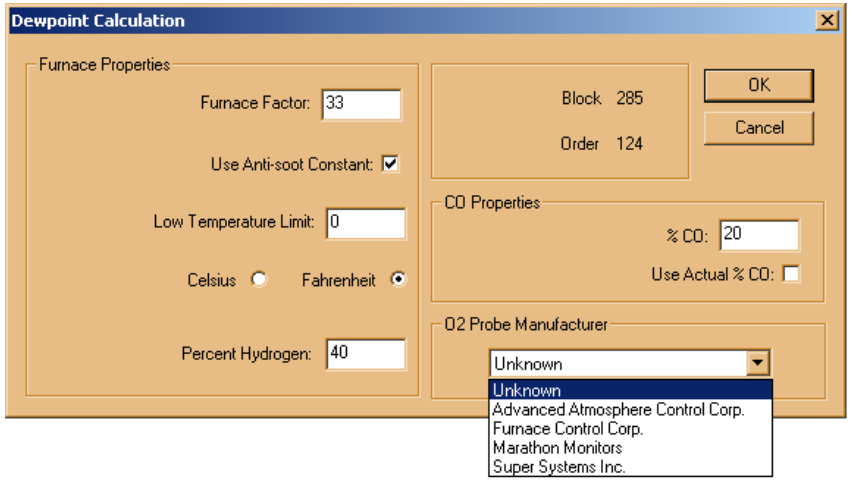
Function blocks that enhance product quality

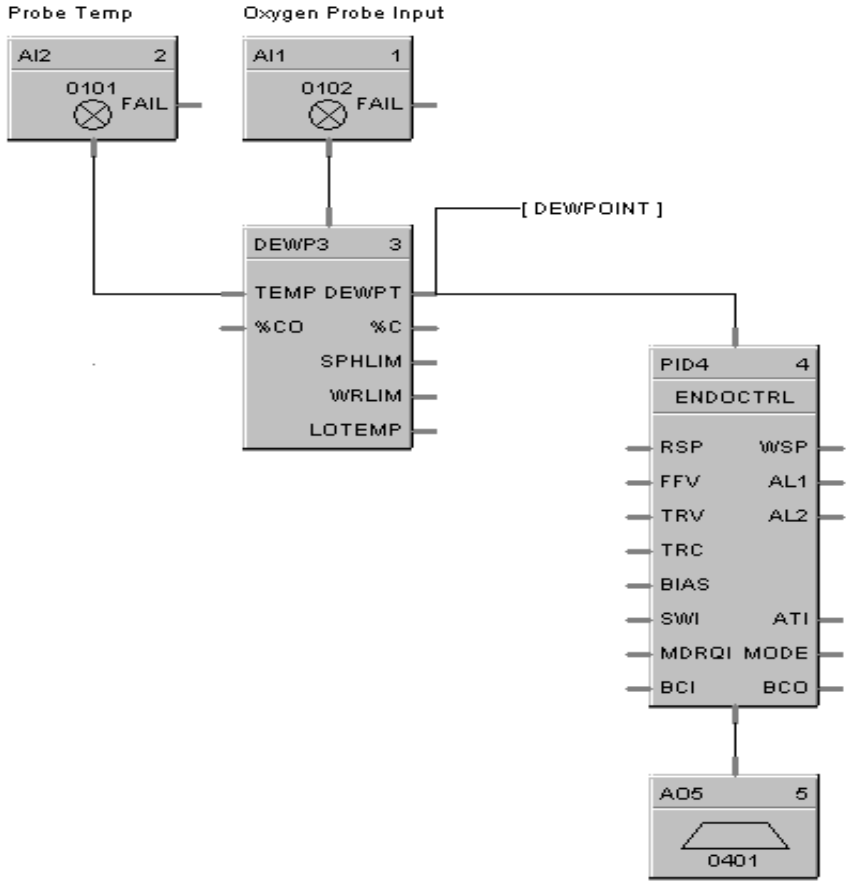
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DEW POINT CONTROL

Table 1. Typical dew point levels	
Dew Point, ˚F (˚C)	Water Vapor (ppm)
+46 (+8)	10,590
+25 (-4)	4,320
0 (-18)	1,240
-40 (-40)	127
-90 (-68)	3.4
Note: 1.04% moisture = 10,590 ppm water vapor = +46°F dew point	

Table 2. Dew point vs. surface carbon (%)			
Dew Point, ˚F (˚C)	1500˚F	1600˚F	1700˚F
+30 (-1.1)	1.10	0.80	0.55
+40 (4.4)	0.85	0.60	0.40
+50 (10)	0.60	0.40	0.27



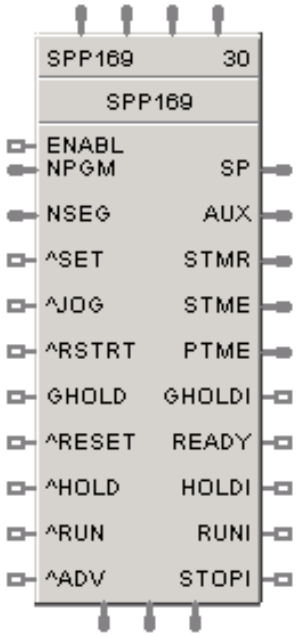


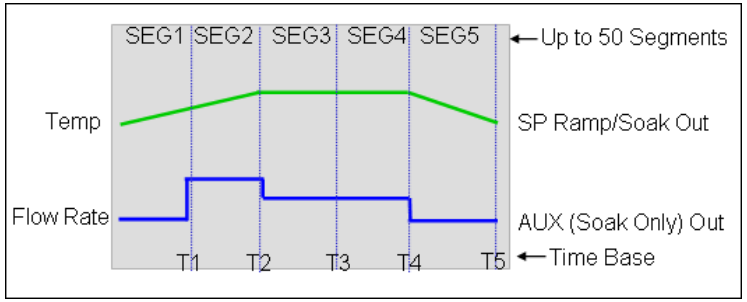
Function blocks that enhance product quality

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SP PROGRAMMER

- This block is part of the SP Program category
- Runs a setpoint ramp/soak program that produces a setpoint output on a time-based profile that is loaded into the block
  - A single profile may be from 2 to 50 segments in length
  - Up to 70 stored profiles in controller memory
  - Each segment of the profile may be a ramp or soak except the last segment must be a soak
- Auxiliary analog output is provided for each step of program
  - It's a fixed soak value
- A Setpoint guarantee function is provided
  - Holds the program if a process variable exceeds a predefined deviation from setpoint
  - Up to 3 Process Variables can be configured as inputs to the block for guarantee hold





Automated profiles reduce 10-15% engineering efforts

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HARDWARE FEATURES

HC900 HARDWARE ENHANCEMENTS

PRIOR OFFERING - Existing Grey Plastics



ENHANCEMENT - New Black Design



Same Form factor, with new plastics

Aligned to ControlEdge Platform

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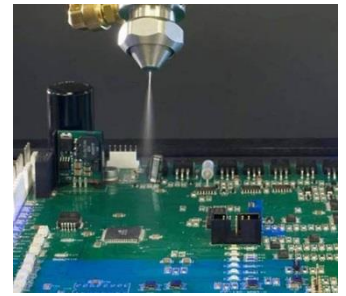
HC900 HARDWARE ENHANCEMENTS

PRIOR OFFERING

- Non RoHS components
- Not suited for Harsh/ Corrosive Environmental conditions

ENHANCEMENT

- RoHS 2 compliant electronics*
- G3 Conformal coating for harsh industrial environment*



* Except Power supplies (900P01 and 900P24)

New target applications in Harsh Corrosive Industrial environments

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NEW MODEL NUMBERS

	DESCRIPTION	EXISTING MODEL NOS.	NEW MODEL NOS.
Controllers	CONTROLLER C30 CPU	900C30-0360-00	900C30-0460
	CONTROLLER C50 CPU	900C50-0360-00	900C50-0460
	CONTROLLER C70 CPU	900C70-0360-00	900C70-0460
	REDUNDANT CONTROLLER C75 CPU	900C75-0360-00	900C75-0460
	CONTROLLER C30 CPU - SIL	900C30S-0360-00	900C30S-0460
	CONTROLLER C50 CPU - SIL	900C50S-0360-00	900C50S-0460
	CONTROLLER C70 CPU - SIL	900C70S-0360-00	900C70S-0460
	REDUNDANT CONTROLLER C75 CPU-SIL	900C75S-0360-00	900C75S-0460
I/O Scanners	I/O SCANNER (FOR REMOTE RACK)	900S50-0360-00	900S50-0460
	I/O SCANNER - 2 PORT (1 PER I/O RACK)	900S75-0360-00	900S75-0460
	I/O SCANNER -1 PORT (1 PER I/O RACK)-SIL	900S50S-0360-00	900S50S-0460
	I/O SCANNER- 2 PORT(1 PER I/O RACK)-SIL	900S75S-0360-00	900S75S-0460
RSM	REDUNDANT SWITCH MODULE	900RSM-0101	900RSM-0200
PSM	REDUNDANT POWER STATUS MODULE	900PSM-0101	900PSM-0200
Power Supply	POWER SUPPLY -120/240VAC, 60W SIL	900P01-0201	900P01-0401
	POWER SUPPLY 24VDC, 60W- SIL	900P24-0201	900P24-0401
	POWER SUPPLY -120/240VAC, 60W	900P01-0101	900P01-0301
	POWER SUPPLY 24VDC, 60W	900P24-0101	900P24-0301

Existing Hardware Functionality in new Black Design

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NEW MODEL NUMBERS

	DESCRIPTION	EXISTING MODEL NOS.	NEW MODEL NOS.
RTP Cable	8 CH A/O RTP CABLE (1.0M, 3.3FT)	900RTC-B910	900RTC-BA10
	8 CH A/O RTP CABLE(2.5M, 8.2FT)	900RTC-B925	900RTC-BA25
	8 CH A/O RTP CABLE(5.0M, 16.4FT)	900RTC-B950	900RTC-BA50
	LV RTP CABLE (32/16 CHANNEL) (1.0M, 3.28FT)	900RTC-3310	900RTC-3410
	LV RTP CABLE (32/16 CHANNEL) (2.5M, 8.2FT)	900RTC-3325	900RTC-3425
	LV RTP CABLE (32/16 CHANNEL) (5.0M, 16.4FT)	900RTC-3350	900RTC-3450
	LOW VOLTAGE RTP CABLE (1.0M, 3.28FT.)	900RTC-L110	900RTC-L210
	LOW VOLTAGE RTP CABLE (2.5M, 8.2FT.)	900RTC-L125	900RTC-L225
	LOW VOLTAGE RTP CABLE (5.0M, 16.4FT.)	900RTC-L150	900RTC-L250
	HIGH VOLTAGE RTP CABLE (1.0M, 3.28FT.)	900RTC-H110	900RTC-H210
	HIGH VOLTAGE RTP CABLE (2.5M, 8.2FT.)	900RTC-H125	900RTC-H225
	HIGH VOLTAGE RTP CABLE (5.0M, 16.4FT.)	900RTC-H150	900RTC-H250
Terminals	FILLER BLOCK TERMINAL COVER	900TNF-0101	900TNF-0200
	LOW VOLTAGE TERMINAL BLOCK (BARRIER STYLE)	900TBK-0101	900TBK-0200
	LOW VOLTAGE TERMINAL BLOCK (US STYLE)	900TEK-0101	900TEK-0200
	VOLTAGE TERMINAL BLOCK (36 CHANNEL)	900TCK-0101	900TCK-0200
	HIGH VOLTAGE TERMINAL BLOCK (BARRIER STYLE)	900TBR-0101	900TBR-0200
	HIGH VOLTAGE TERMINAL BLOCK (US STYLE)	900TER-0101	900TER-0200

Existing Hardware Functionality in new Black Design

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HARDWARE ENHANCEMENT- NEW SIL UNIVERSAL IO

PRIOR OFFERING - (before Sep 2018)



Unavailable
SOE for ESD, BMS

COMPETITION



SOE
1 m-sec

ENHANCEMENT





UIO with SOE

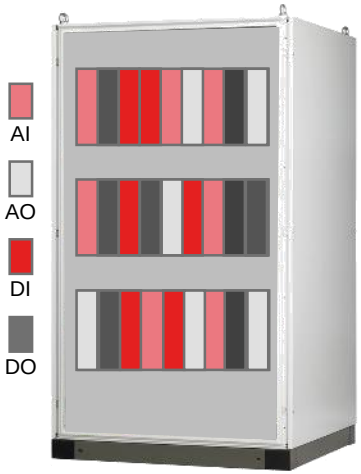
- 16 channel, SIL 2
- 1m-sec SOE
- Voting & Validation, Safety Shutdown of outputs
- Line Monitoring feature
- Short Circuit Protection for individual channels
- Model No: 900U02-0100

SIL UIO features and differentiators plugging gaps

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UNIVERSAL IO FEATURES

PRIOR OFFERING



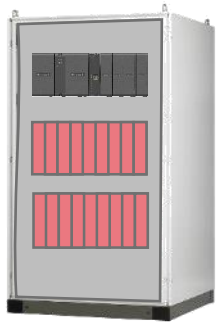
Today
Purpose-Built IO

UIO is Universal IO – allows various types of signals to terminate on a single IO module.

ENHANCEMENT

SIL UIO BENEFITS

End User | EPC | System Integrator | OEMs



ControlEdge HC900

UIO with SOE, Voting & Validation

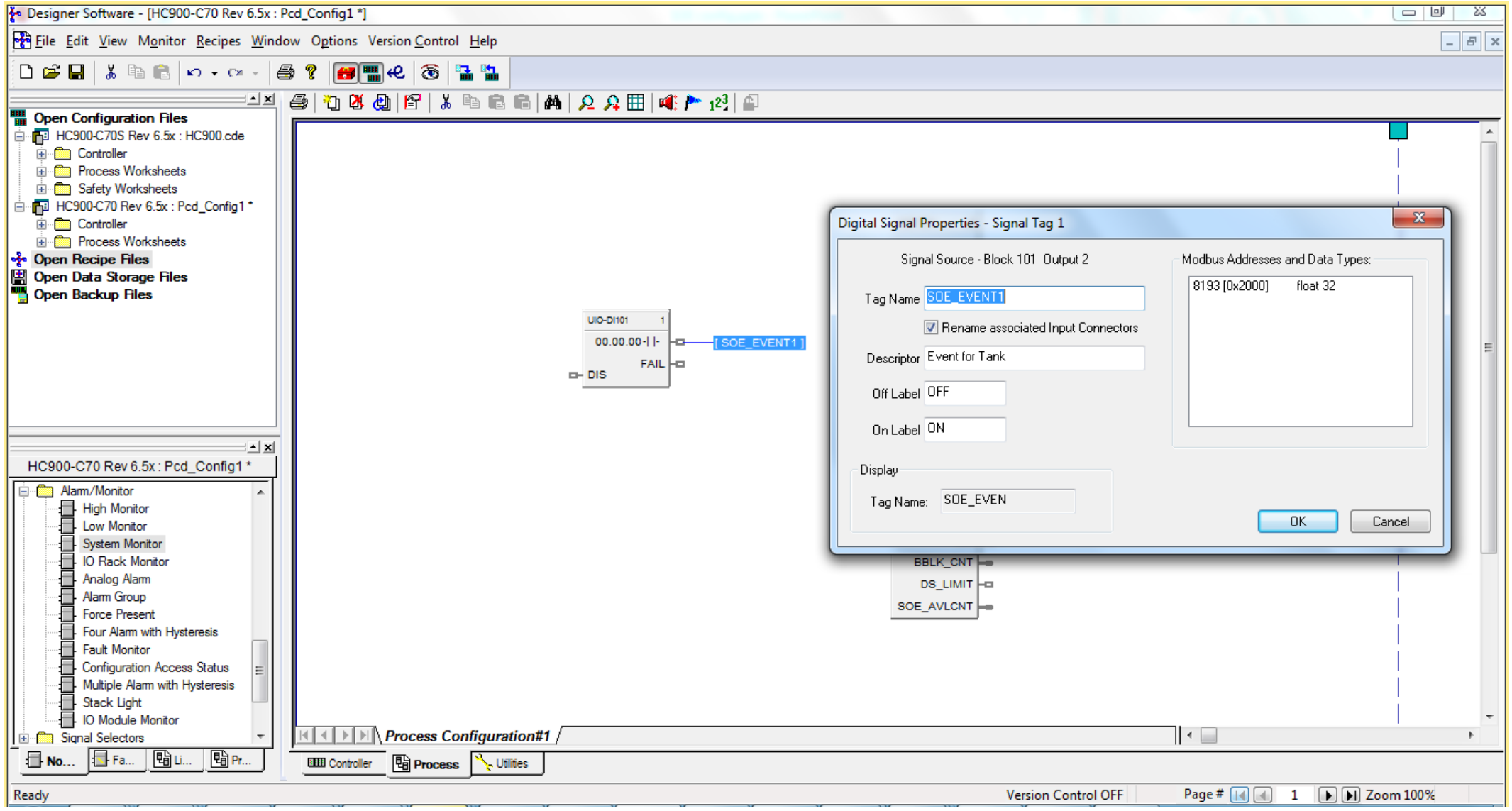
- Easily adapts to late changes
- Reduced hardware, simple engineering
- Fewer spares
  - One UIO module vs. four standard modules

*5 systems with 400 IO's each

Reduced Cost and Project Schedule Risk with UIO

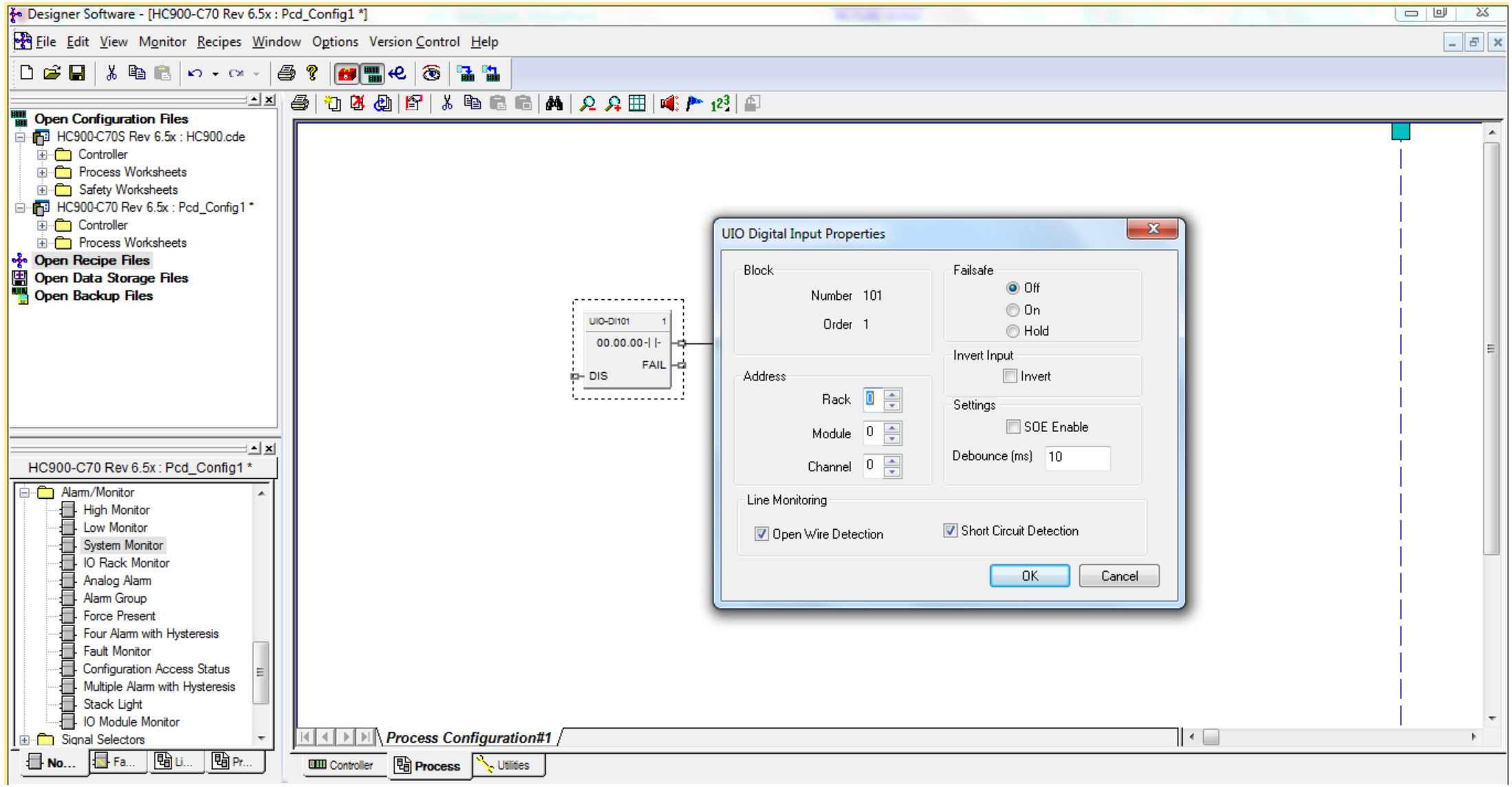
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SIL UIO SOE/ LINE MONITORING CONFIGURATION



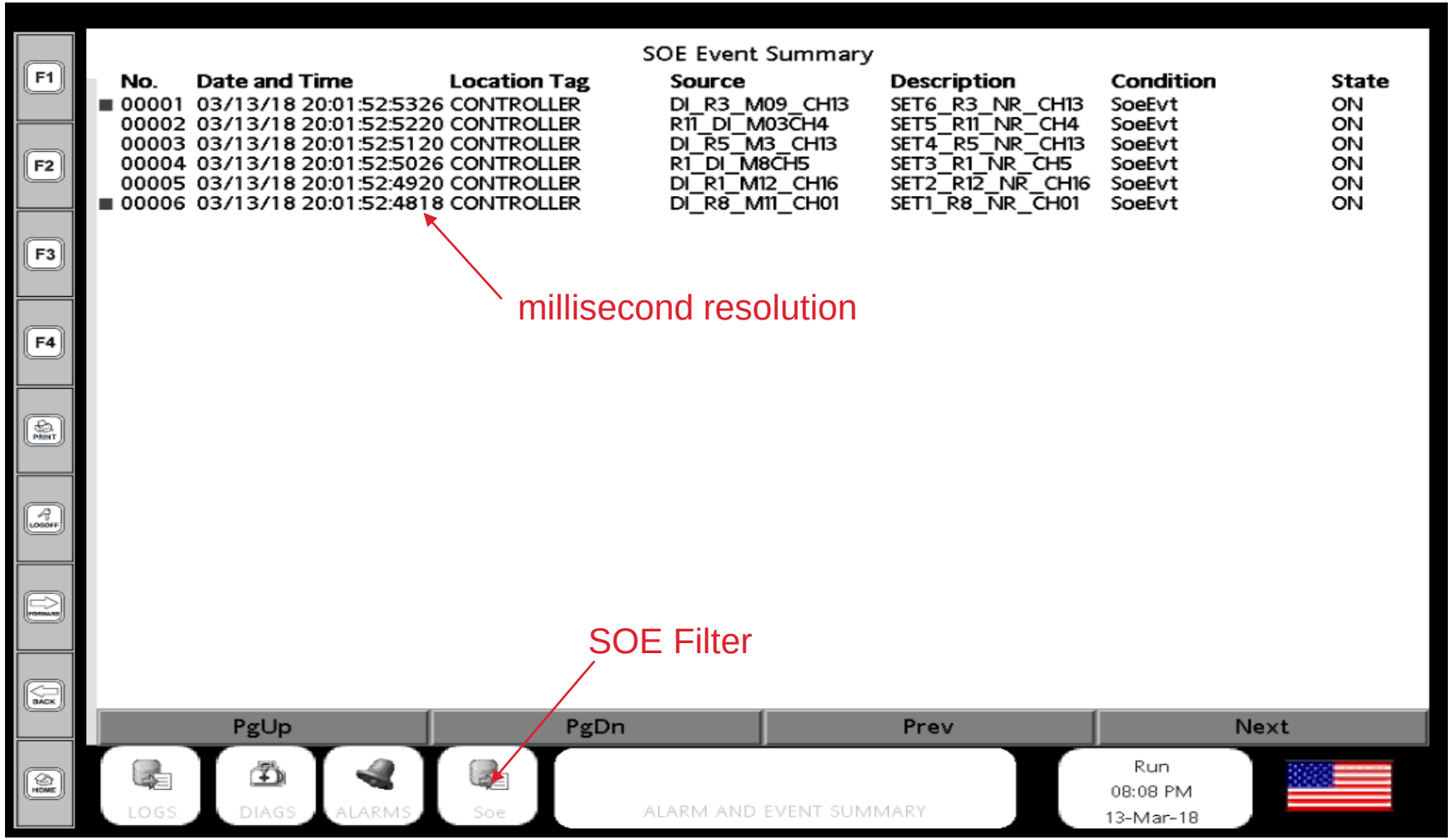
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SIL UIO SOE / LINE MONITORING CONFIGURATION



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SIL SOE REPORT ON CONTROL STATION



Latest 1000 SOE displayed on Control Station

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R660 FEATURES (JAN 2019)

WHAT IS NEW IN RELEASE R660?

- **A** HC Designer Software in Mandarin Language
- **B** Enhanced Function Block Handling capacity for C70/C75 Controllers -15000 FBs
- **C** Increased number of worksheets in HC Designer for C70/C75 (160 Process and 80 Safety Sheets)
- **D** SetPoint Profile (SPP) enhancement with Target Setpoint used for Thermal applications
- **E** Ring Topology Support for IO Network using recommended switches
- **F** Trend Backfill Memory size doubled (from 1.5 to 3MB) for C70/C75 Controllers
- **G** Modbus Variable Mapping increased from 2048 to 6144
- **H** New MMA (Min Max Average Sum) Block with 8 inputs and disable option

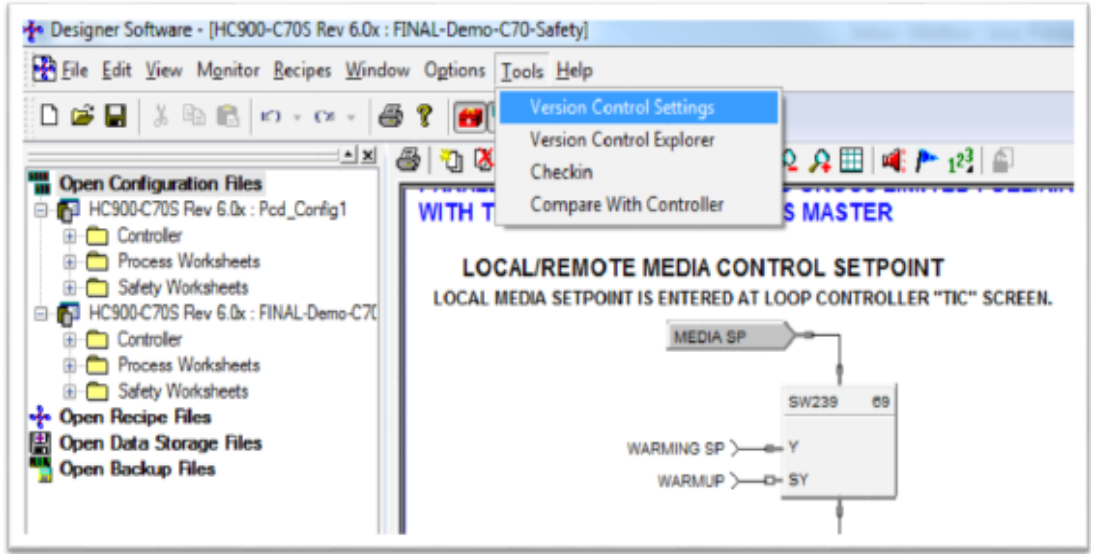
Enriched Capabilities to meet customer demands

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HC DESIGNER SOFTWARE IN ENGLISH AND MANDARIN

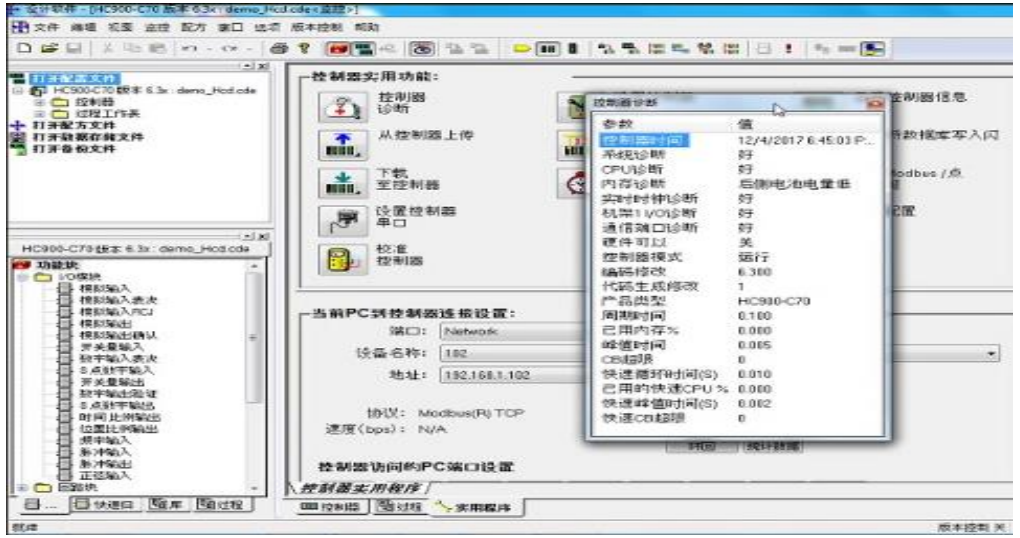
PRIOR OFFERING

HC Designer Configuration tool in English Language



ENHANCEMENT

Configuration and Help Files in Mandarin



Strong value proposition with localization of software in Mandarin

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ENHANCED FUNCTION BLOCK HANDLING CAPACITY

PRIOR OFFERING

Function blocks support for C70/C75 CPU at 5000 FBs per controller

Function	C30 CPU	C50 CPU	C70/C75 CPU
Function Blocks	400	2000	5000

ENHANCEMENT

3x increase in Function Block handling capacity at 15000 FBs per controller for C70/C75 CPUs

Function	C30 CPU	C50 CPU	C70/C75 CPU
Function Blocks	400	2000	15000

ENHANCED CAPACITY

- **Compliments the 4608 IO and 12 IO rack support**
- **Larger systems with reduced overall cost**

Function blocks enhanced by a factor of “3”

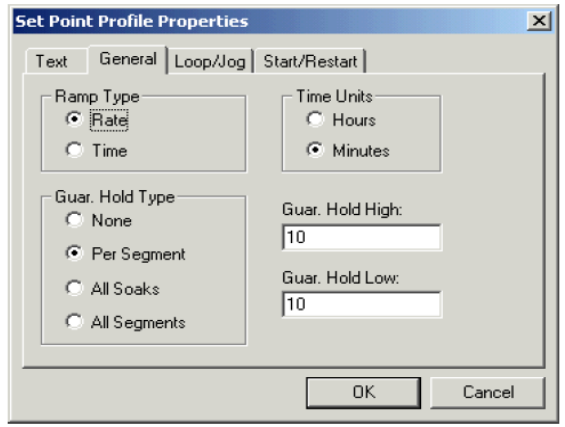
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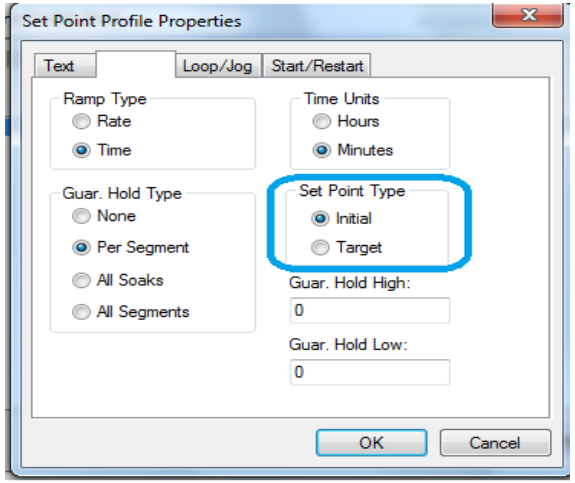
SETPOINT PROFILE ENHANCEMENT (INTRODUCED JAN 2019)

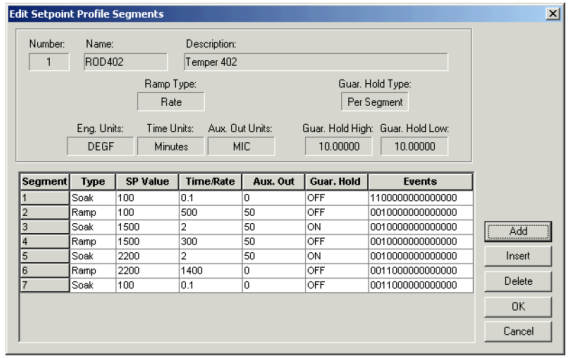
- SPP has two types of programming- Ramping Time and Ramping rate.
- Current SPP functionality lacked Target Setpoint selection
- Segment Rate change with Initial SP caused confusion to customers
- Standard SPP feature available with competition had this feature
- This new feature, will give two options:
  - Initial SP : With this selection, profiles will ramp to the next segment SP value from the current value.
  - Target SP : With this selection, profiles will ramp to the current segment SP value from the current value

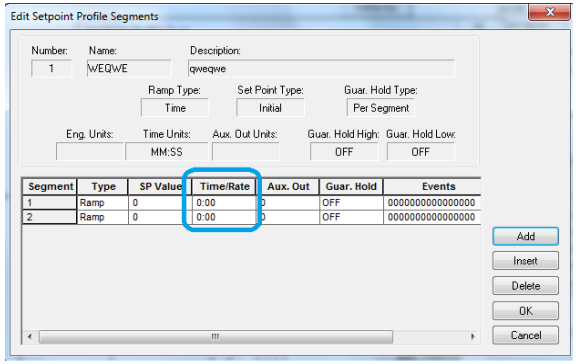
ADDITIONAL FEATURE

Avoid converting time to Floating Values. Enter Time format directly in HH:MM or MM:SS







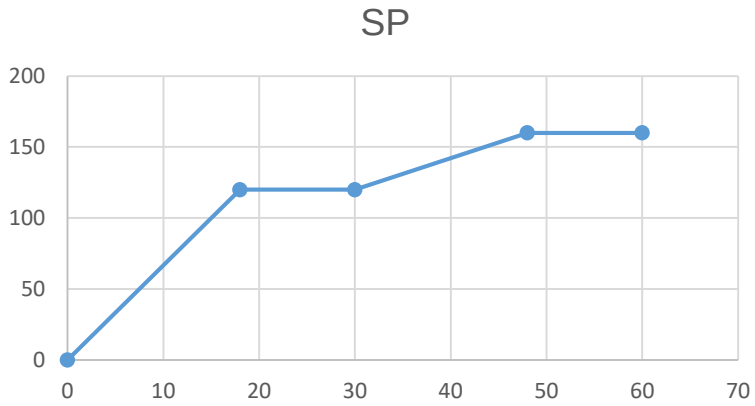


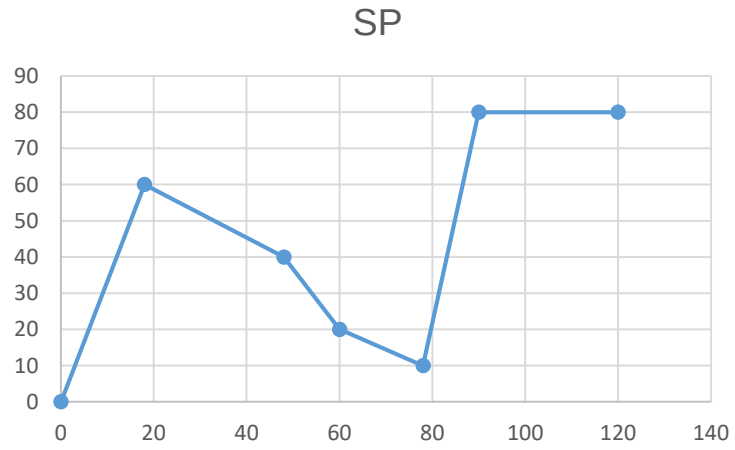
Target SP critical requirement from Heat Treatment application- Batch Oven & Furnaces

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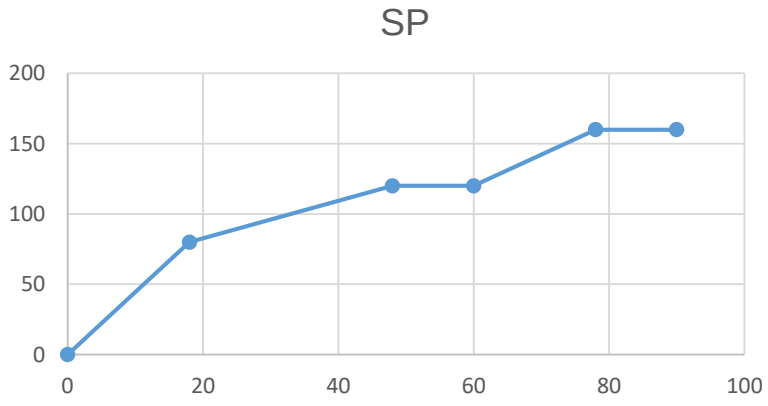
SETPOINT PROFILE ENHANCEMENT (CHANGE OF BEHAVIOR)

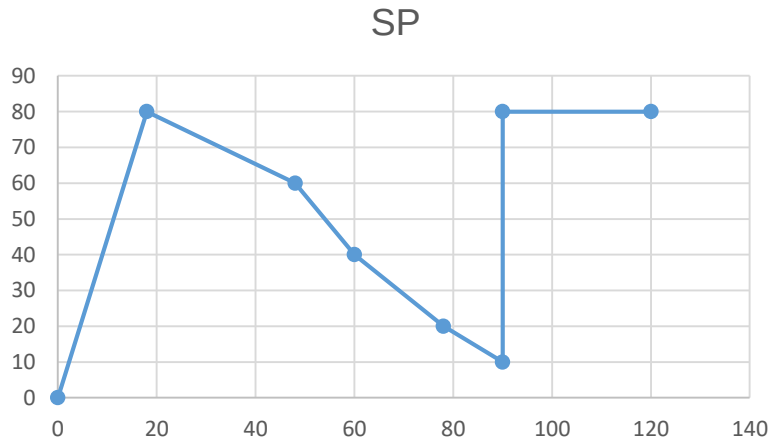
CURRENT BEHAVIOR (WITH INITIAL SP)





BEHAVIOR WITH TARGET SP





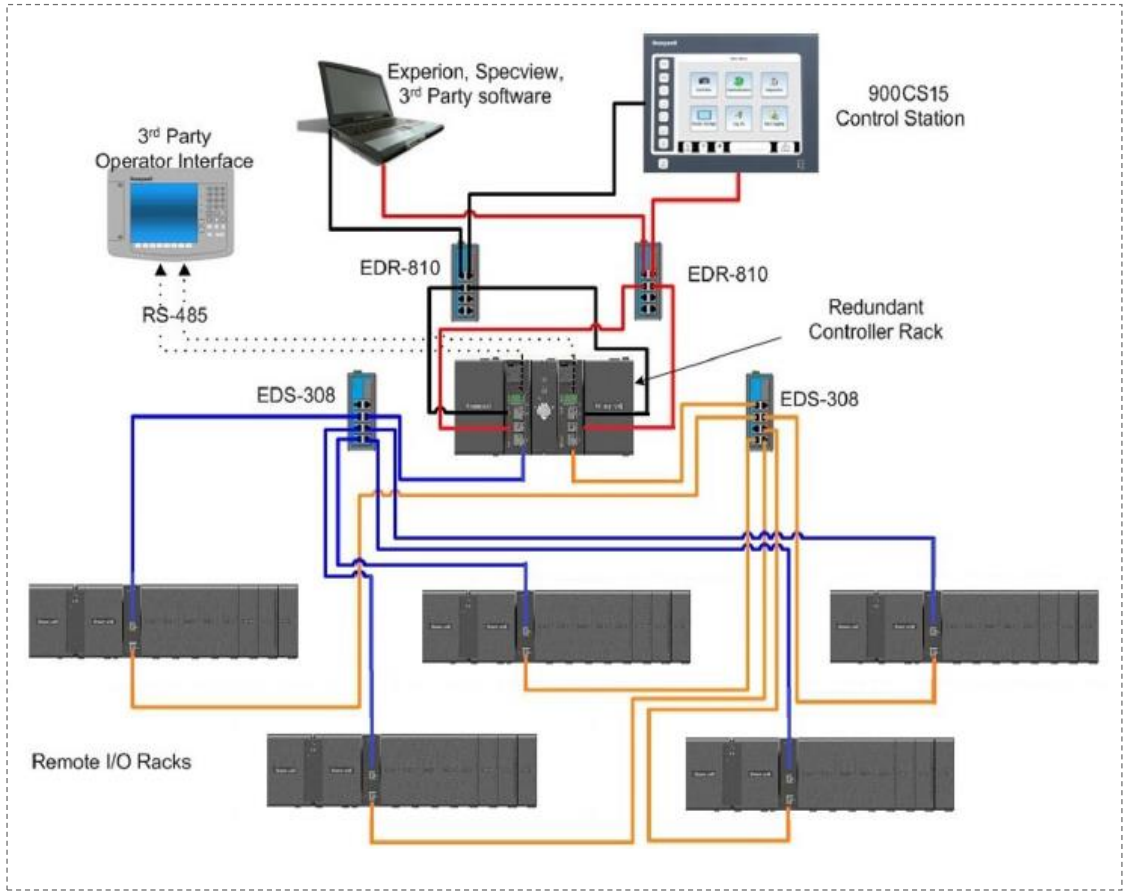
	SP	TIME IN SEC	ELAPSED TIME
Ramp	80	18	18
Ramp	120	30	48
Soak	120	12	60
Ramp	160	18	78
Soak	160	12	90

	SP	TIME IN SEC	ELAPSED TIME
Ramp	80	18	18
Ramp	60	30	48
Ramp	40	12	60
Ramp	20	18	78
Ramp	10	12	90
Soak	80	30	120

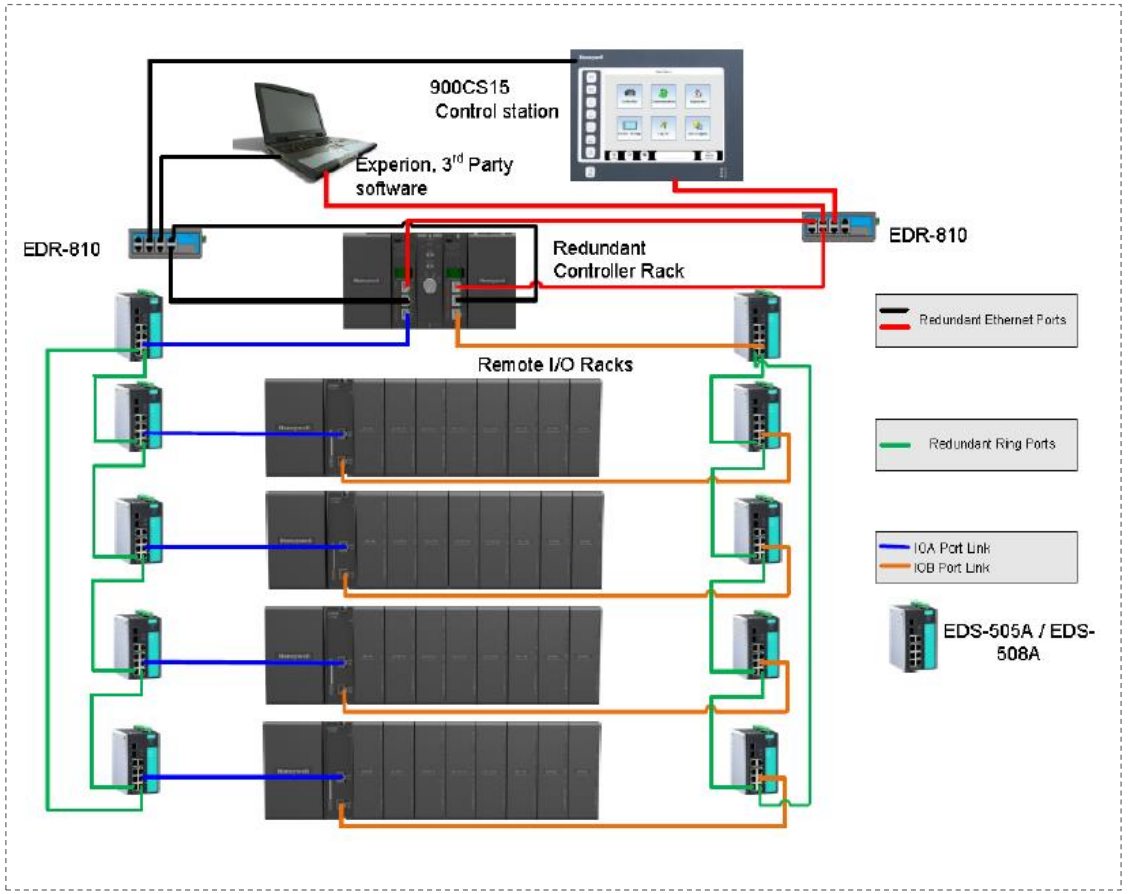
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IO TOPOLOGY SUPPORT- STAR AND RING

MULTIPLE RACKS- REDUNDANT (STAR)



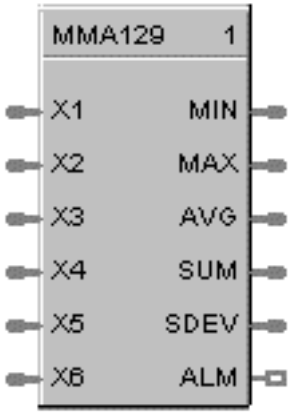
MULTIPLE RACKS- REDUNDANT (RING)



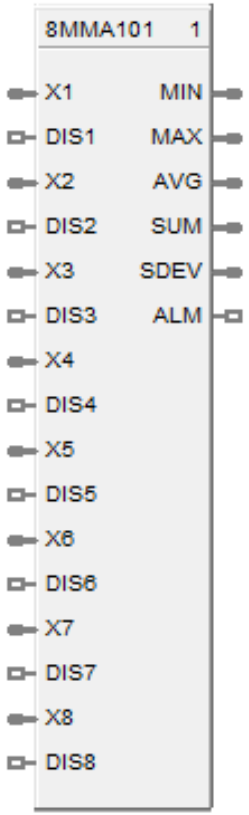
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8MMA BLOCK (MIN MAX AVERAGE SUM) WITH DISABLE OPTION

- Long time demand from Building Automation (HVAC) and Furnace users to increase Block input capacity
- Helps eliminate failed thermocouples from MMA calculations using disable feature, which earlier required complex logic schemes



Existing 6MMA



New 8MMA

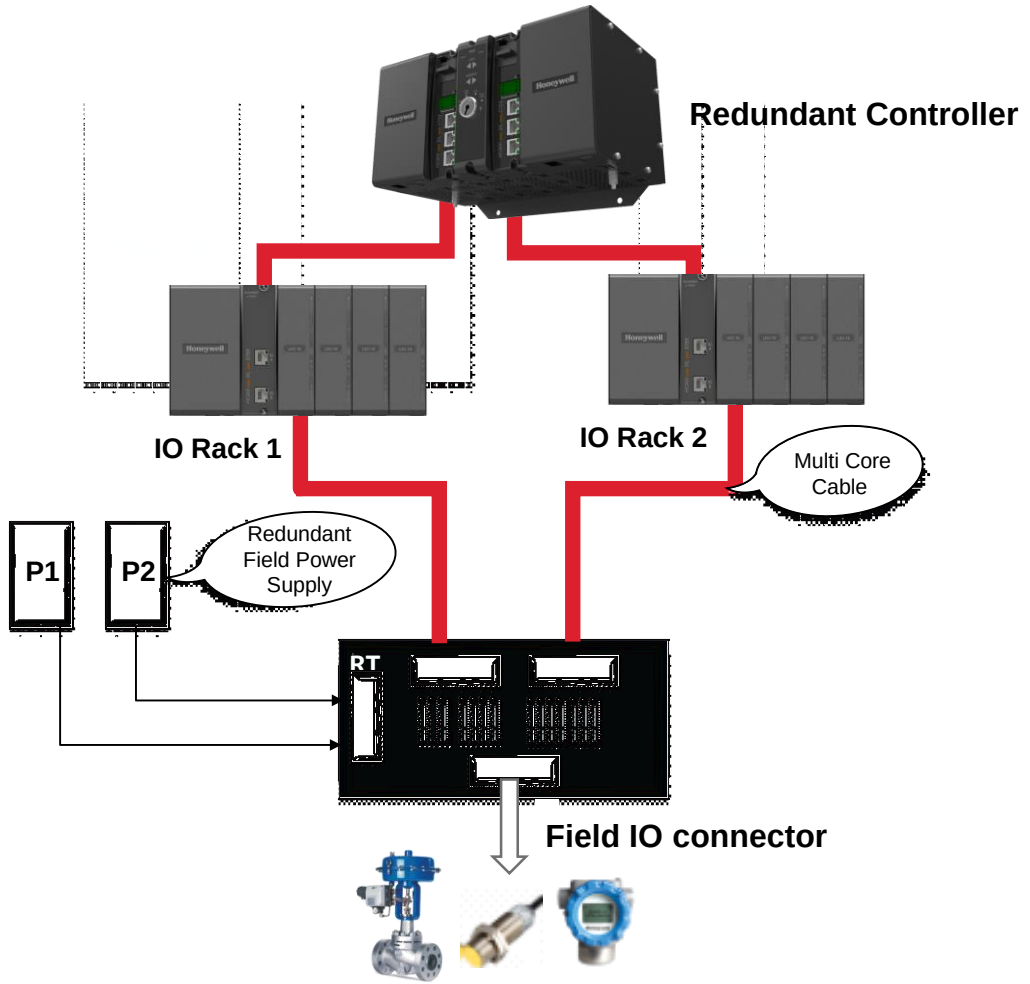
Simplified MMA calculation for Batch Furnace and HVAC applications

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WHAT'S NEW IN R700 (Q4 2019)

REDUNDANT SIL UNIVERSAL IO

- Two SIL2 UIO modules connected to an RTP using prefabricated cables
- Field sensors/outputs connected to the RTP
- IO modules can reside on same or different racks
- Provision for field power supply given on RTP
- The RTP uses diode ORing that is common for all 4 channel types (AI, AO, DI and DO) for UIO
- The scheme is to split the current input signals (AI and DI) on RTP and combine the same at the controller to determine the input value.
- For AO type, IO module will drive 50% of current when partner module is there else 100%. For DO type, both module will drive channel.

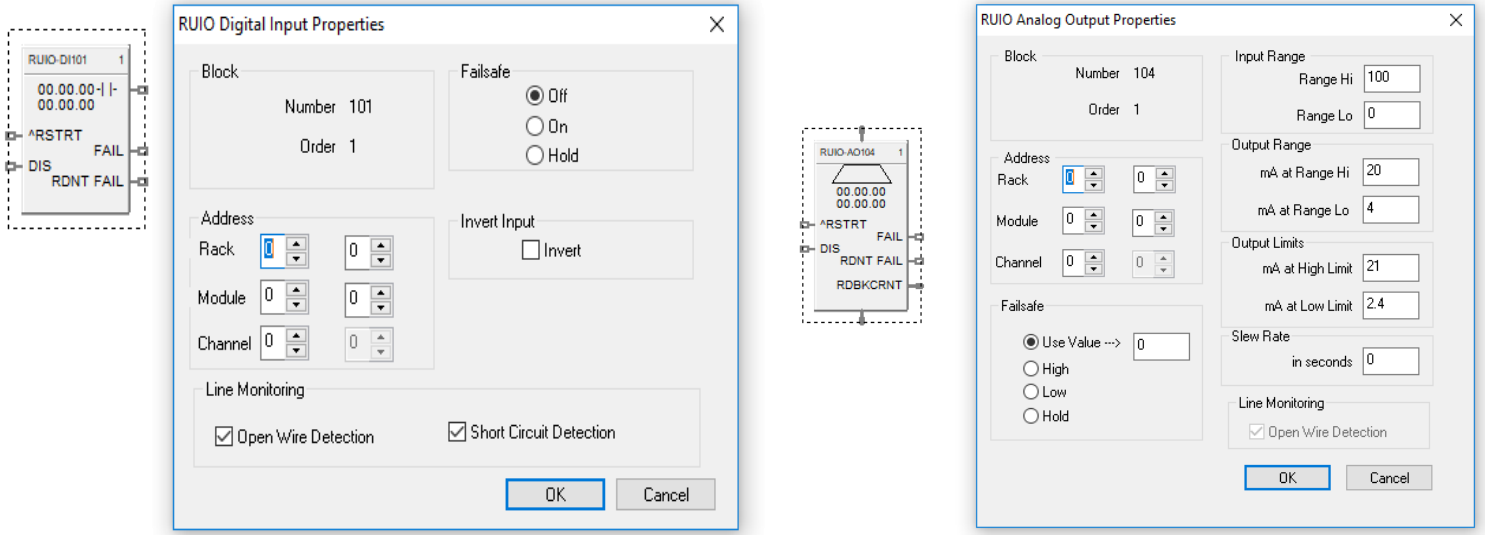


Redundant Hardware for critical application

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SOFTWARE: REDUNDANCY IO MANAGER IN CONTROLLER

- Software in the IO and Controller manages
  - Channel values calculation
  - Output driving
  - Diagnostics
- Redundancy IO manager running in the controller takes care of
  - Timing
  - Synchronization
  - Bump less transfer of IO during one of channel fail and recovery from fault
- Configuration tool (HCD)
  - New function blocks for configuring redundant channels and properties
  - Module and Channel diagnostic monitoring
- Controller (C75
  - Control execution support for redundancy blocks



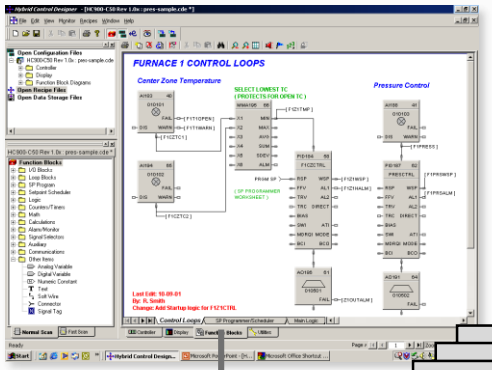
Redundancy Function Blocks

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HC900- EXPERION INTEGRATION

HC900 POINTBUILDER UTILITY METHODOLOGY

HC Designer Software for HC900



Database
Tag Export

1

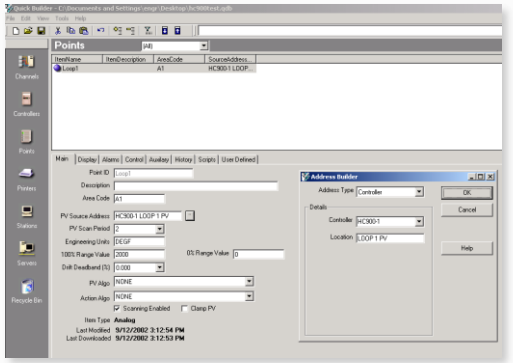
*.csv files

2

HC900
Point Build
Utility

Experion HS / EBI / LX / PKS

Quick
Builder



3

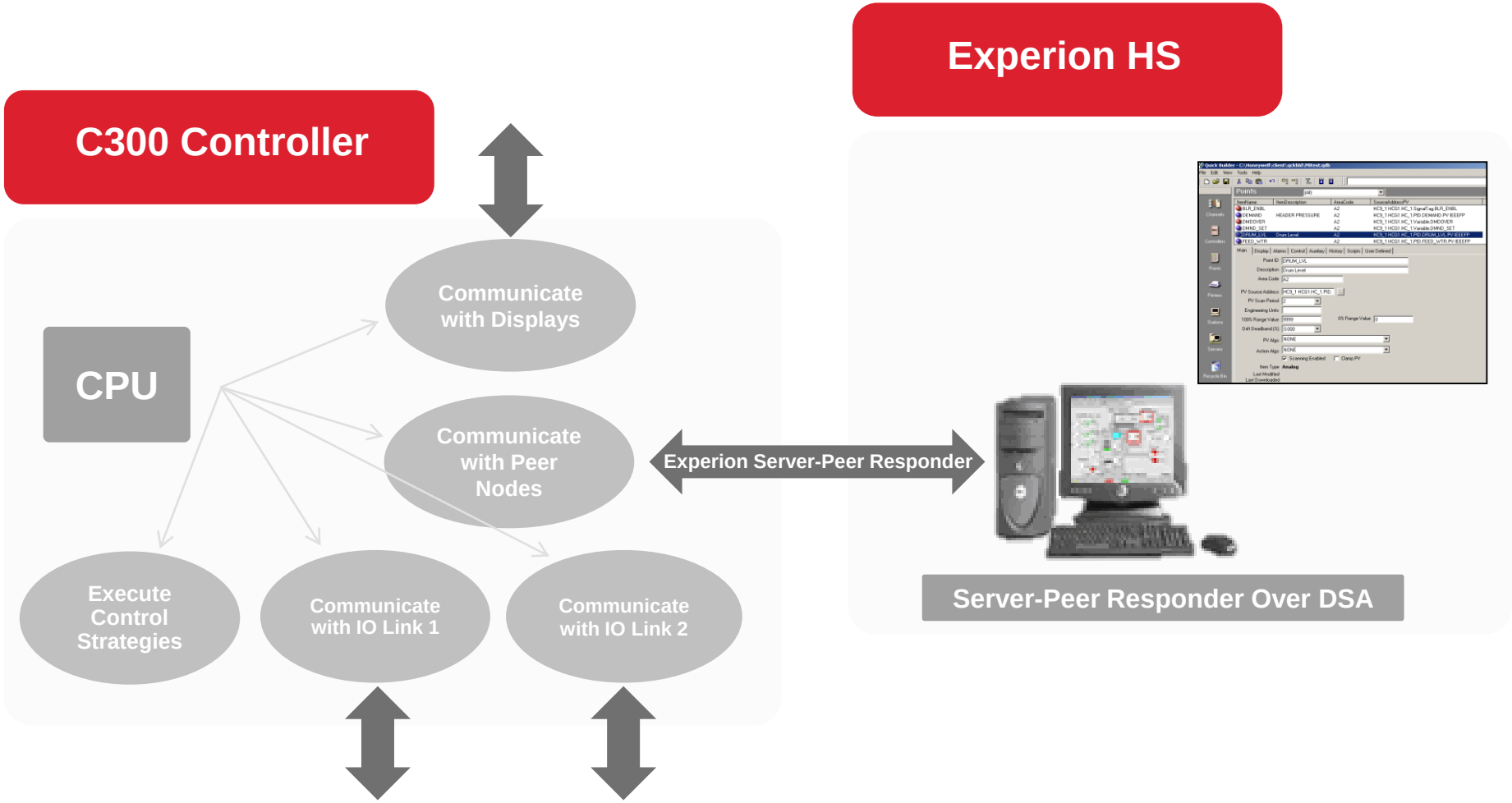
File
Import

*.pnt file
*.hdw file

Software Tools to Reduce Integration from Days to Minutes

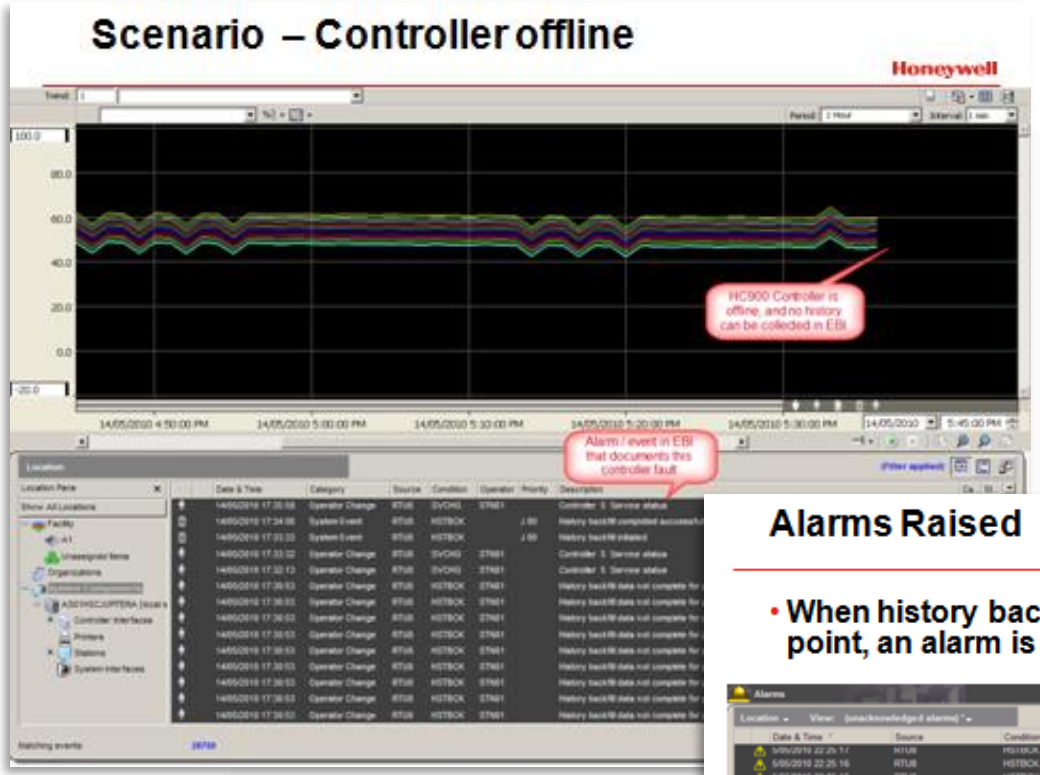
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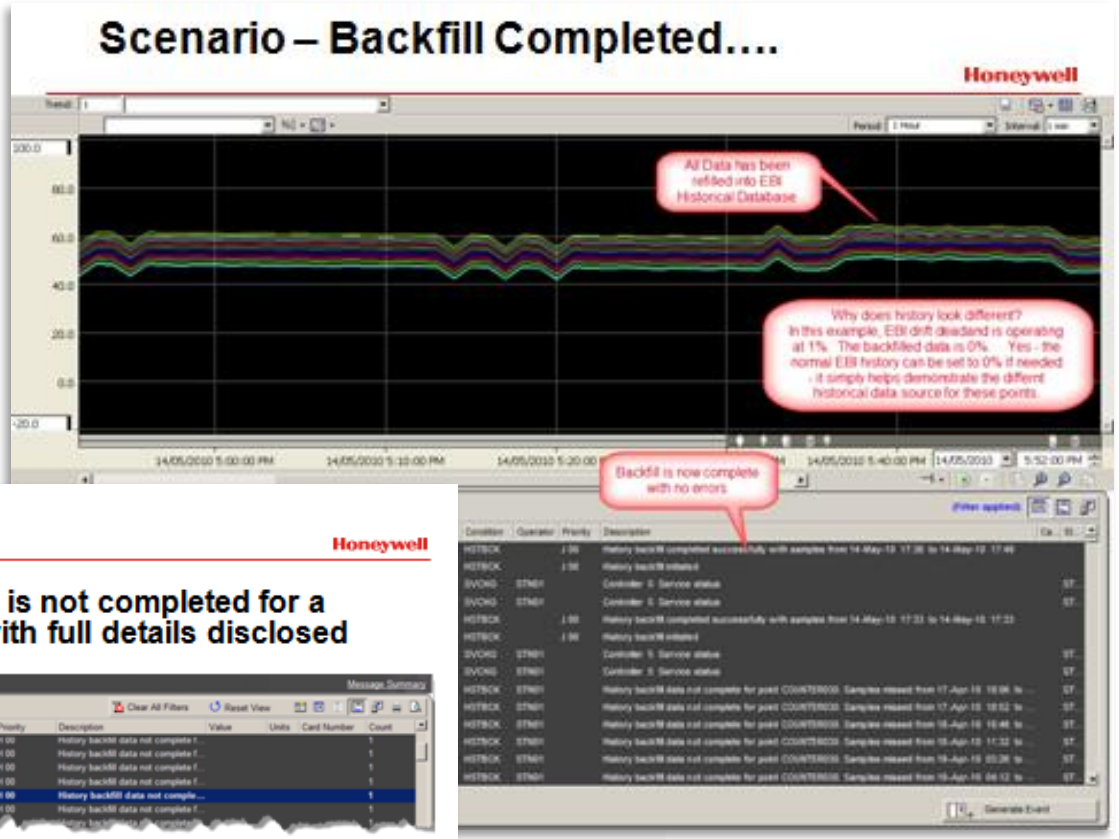
HC900 SERVER-PEER OVER DSA USING EXPERION HS

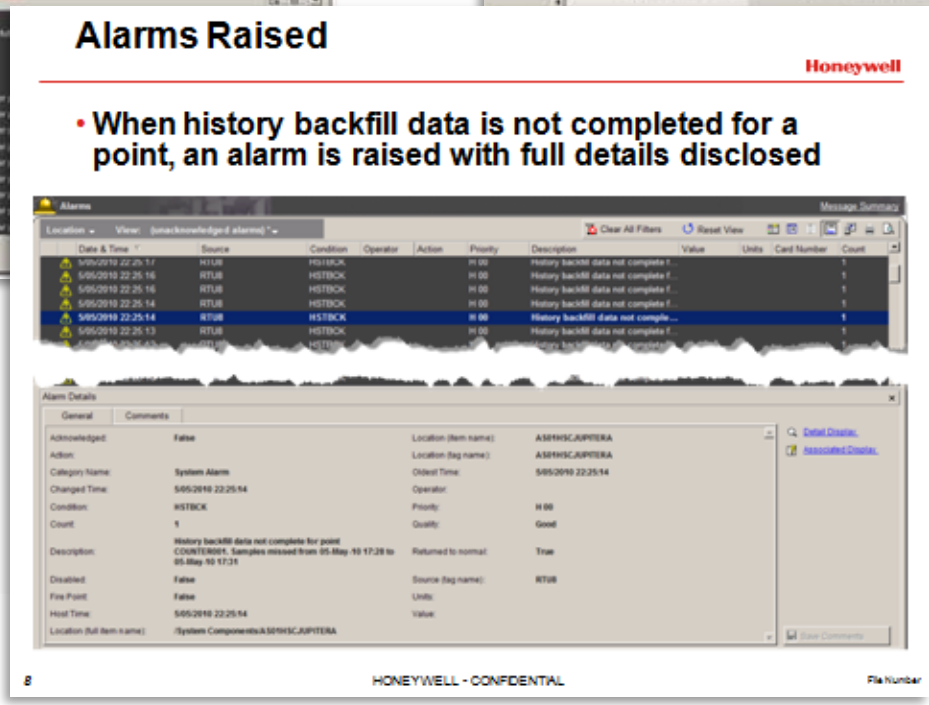


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HISTORY BACKFILL OPTION







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PRODUCT ROADMAP

CONTROLEDGE HC900 ROADMAP (2018 TO 2020)



R660

- SetPoint Programmer FB enhancement with Target Setpoint for Thermal applications
- Trend Backfill Memory size doubled (1.5 to 3MB)
- Modbus Variable Mapping increased from 2048 to 6124
- 8 Input MMA (Min Max Average) Block
- Ring IO Network Support

Dec'18

R665

- New PFQ module with renewed components

Aug'19

Dec'19

R700

- Redundant SIL Universal IO using RTP

Q4, 2020

R720

- New ControlEdge 900 Power Supply with Extended Temp range -40 to+75 Deg C
- New UAI module with enhanced speed and signal ranges

Future 2021 and beyond

(Connectivity & Integration)

- Enhancement for Furnace applications- Built-in FBs for Air Fuel Ratio, Combustion Controls
- Tighter Experion integration (Experion HS OI)
- Certifications (NFPA 72) for F&G applications
- Extended temperature range (-10 to 70 C)
- Dual Active Network gateway support
- Protocol Enhancement- Ethernet , Serial, Profinet comm.

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THANK YOU

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