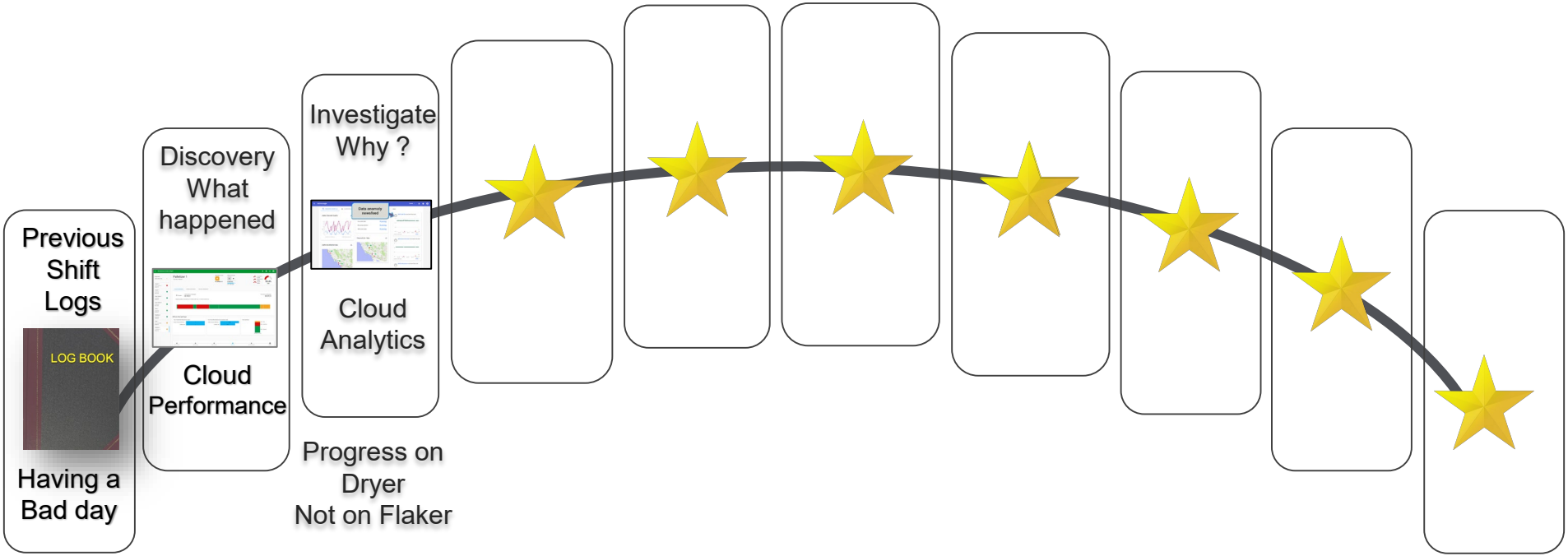
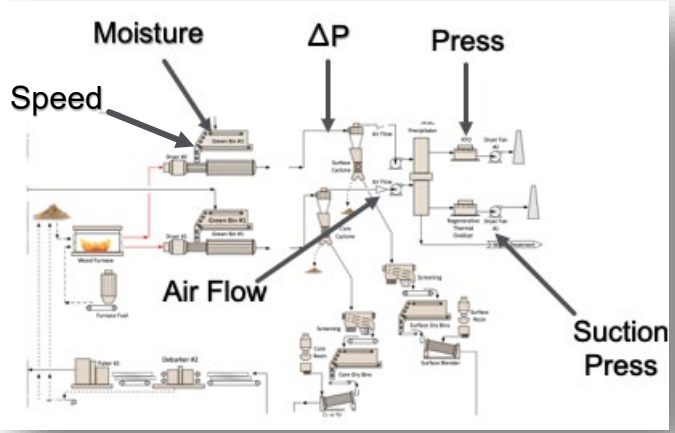
Our journey today – the cadence of the shift

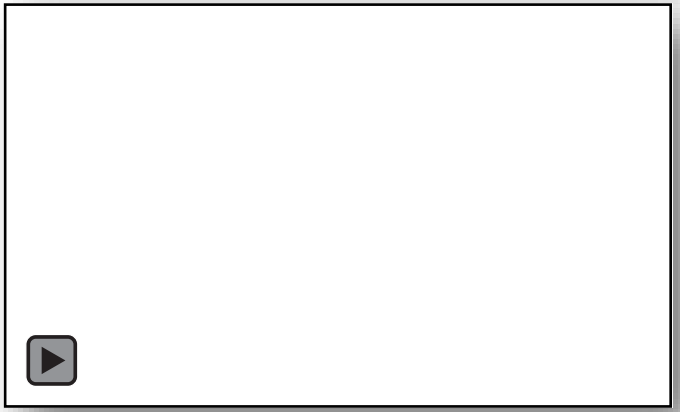
Steps toward being more Digitized



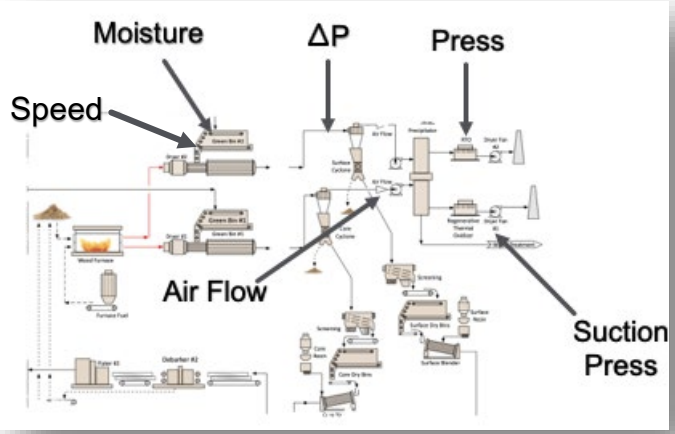
Drive actions based on predictable rules



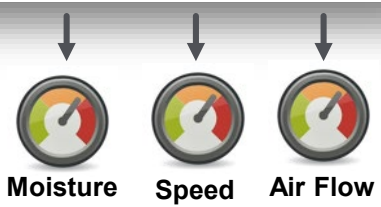
1. Insight reveals patterns that could be used to predict plugs
2. No way to drive actions and workorders for those conditions
3. Our automation systems don't interface to our CMMS to accommodate this.



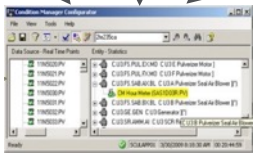
How we're addressing the issue



1. A system to build conditional logic that traps for predetermined conditions
2. Send work order directly to our CMMS for resolution before plugging
3. Notify me and others via email of the conditions



Single or multi-variable



Logic

CMMS

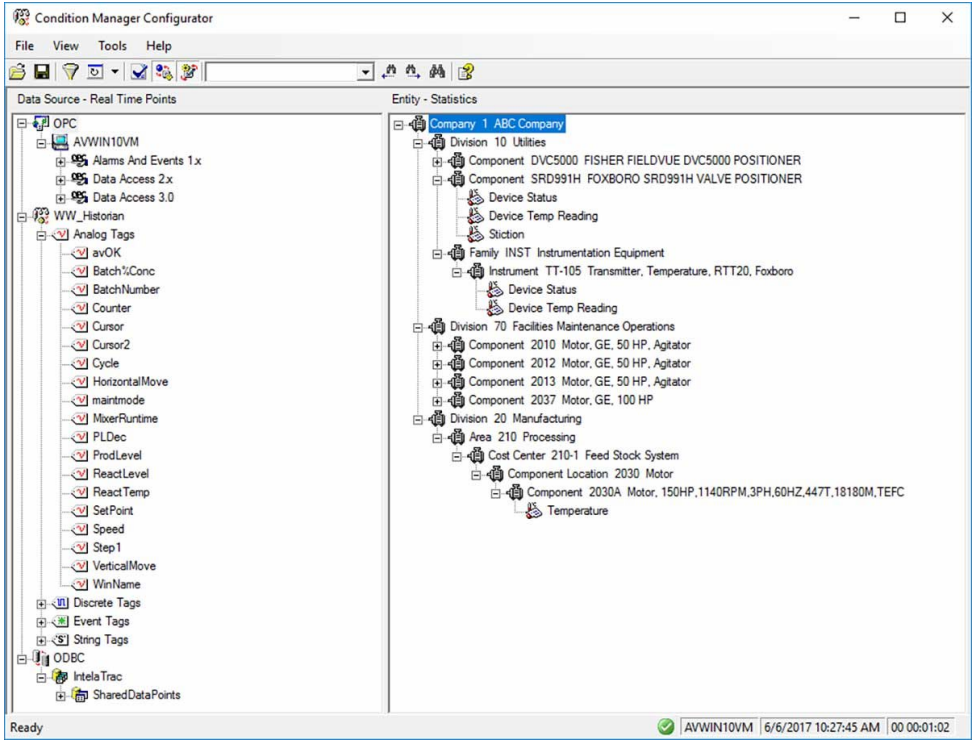
Cloud

Corrective Maintenance

Lets take a look

Industry 4.0

Driving Operational Results Through Digitization

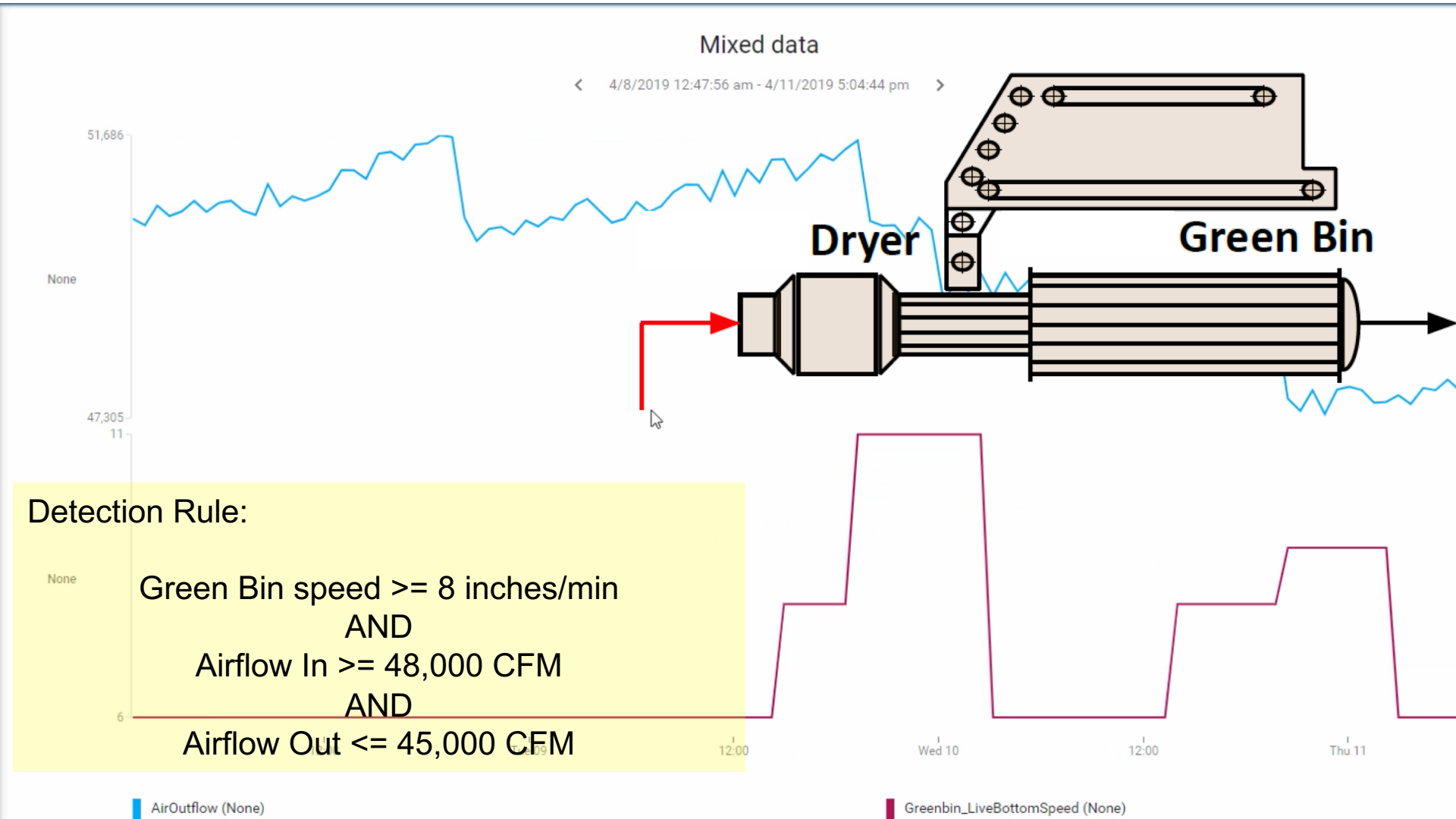


1:15A STARTED CLEAN UP @ GREEN END.
1:30 CORE FLAKER HIGH VIBRATION ALARM. CALLED MAINT.
1:30 CORE DRYER PLUG. ALL STOP. CALLED MAINT.
2:10A PURGE CORE DRYER. TOO MANY FLAKES TO PURGE. MORE NECESSARY
2:22A CORE CYCLONE CLEAN UP.
2:50A CORE DRYER BACK ONLINE (DOWN 1:20MIN).
3:16A LOST ENVIRONMENTAL DATA. CALLED AUTOMATION TEAM.
3:20A SURFACE DEBREAKER JAM, REMOVED OBSTRUCTION/RESTARTED
3:28A WELLONS FURNACE LOW TEMP ALARM: RESET
3:36A FLAKER HIGH VIBRATION ALARM. RESET & CALLED MAINT.

UNPLANNED DT

Equipment Failure
4/15/2019 1:29:35 am
01:17:42

...ntn. RTO'S OK BUT NO DATA
... BELT. NO PROBLEMS DISCOVERED.
...ORE DRYER. GREYCON RETURNED
...ED MAINT.
...ER WILL BE DOWN A WHILE TAM PREDICT.
...ELTED UPTIME TAM
6:55A CORE FLAKER BACK ONLINE.



Detection Rule:

Green Bin speed >= 8 inches/min
AND
Airflow In >= 48,000 CFM
AND
Airflow Out <= 45,000 CFM

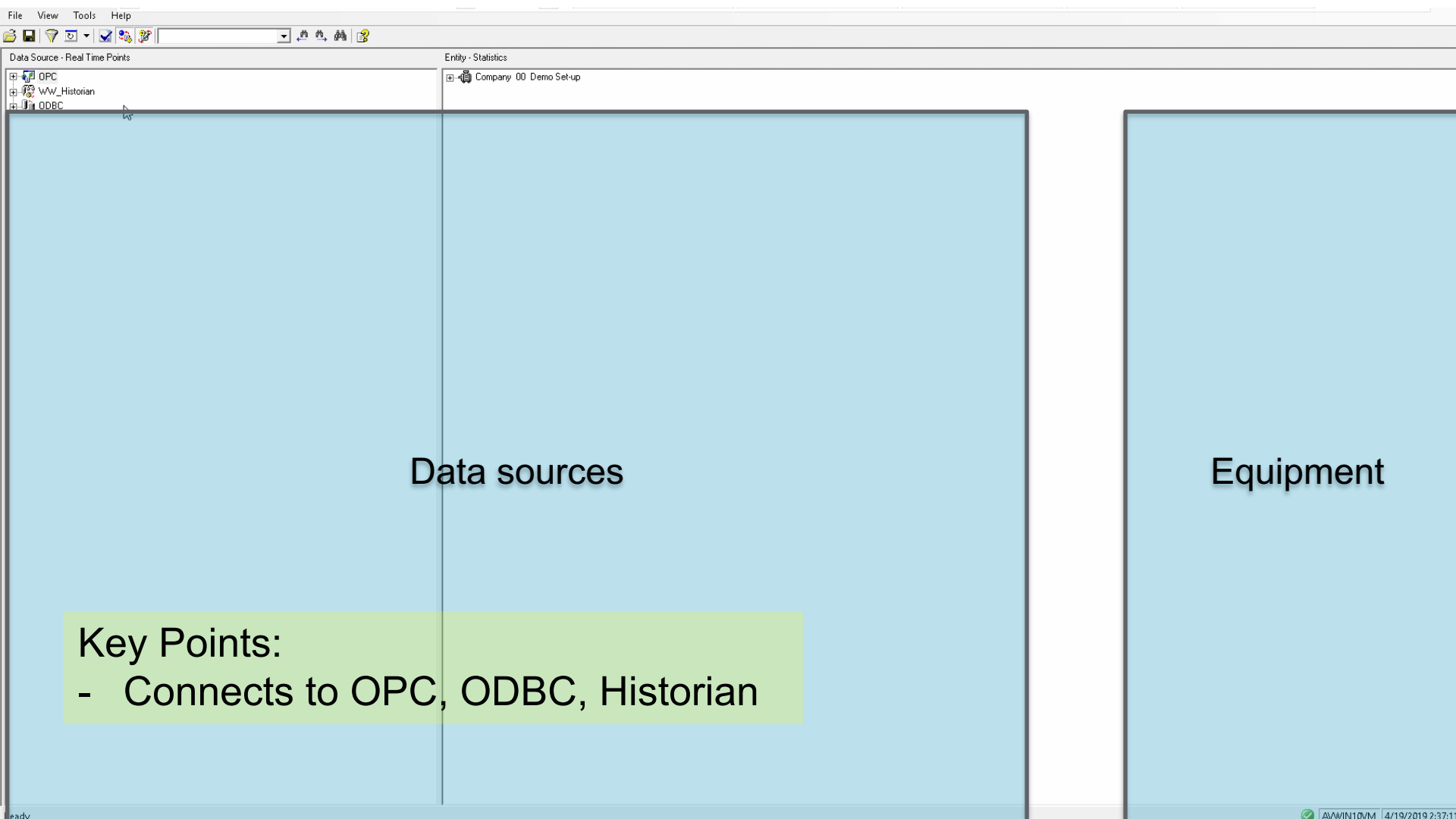
Lets take a look

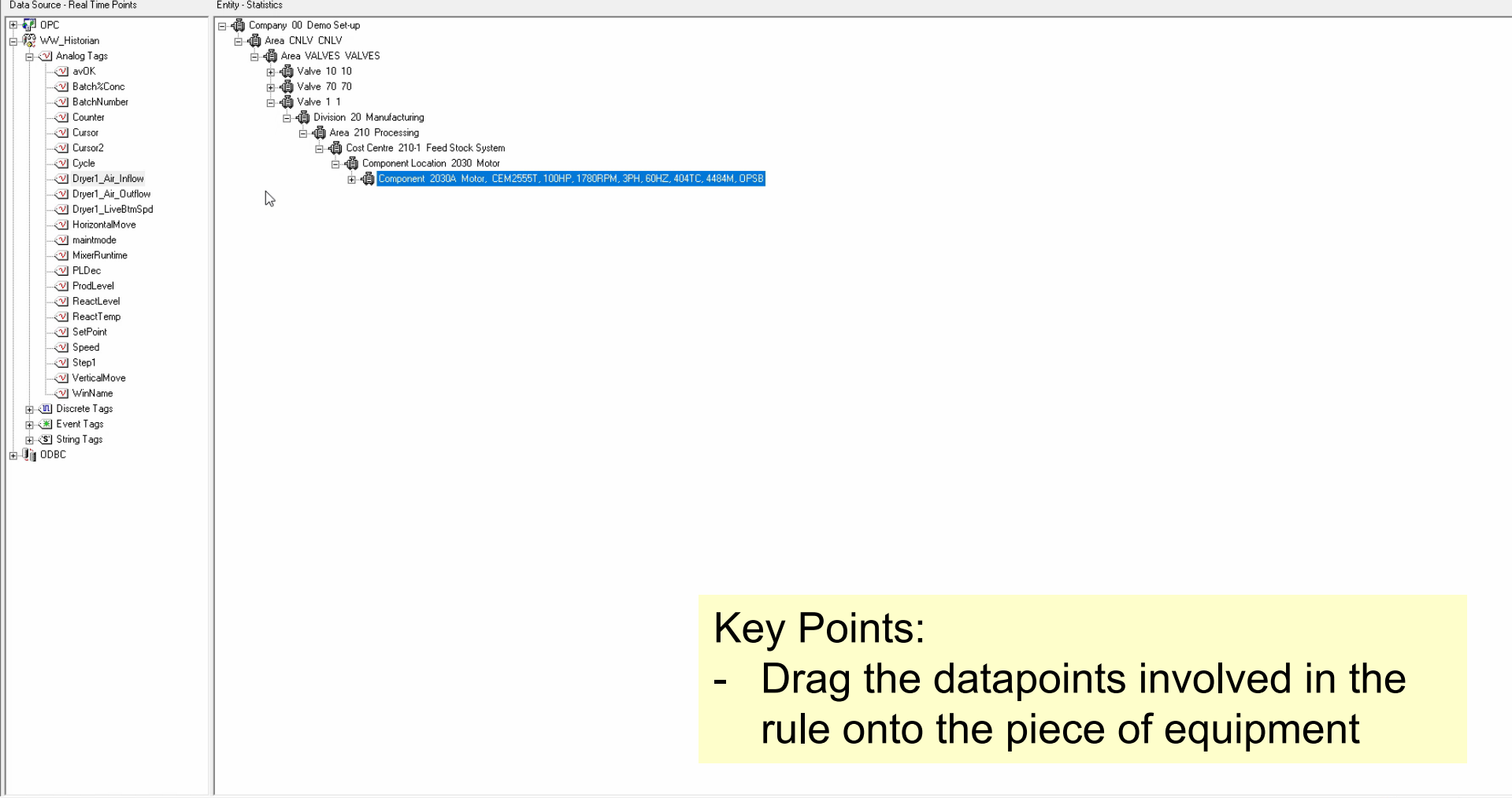
WISH LIST

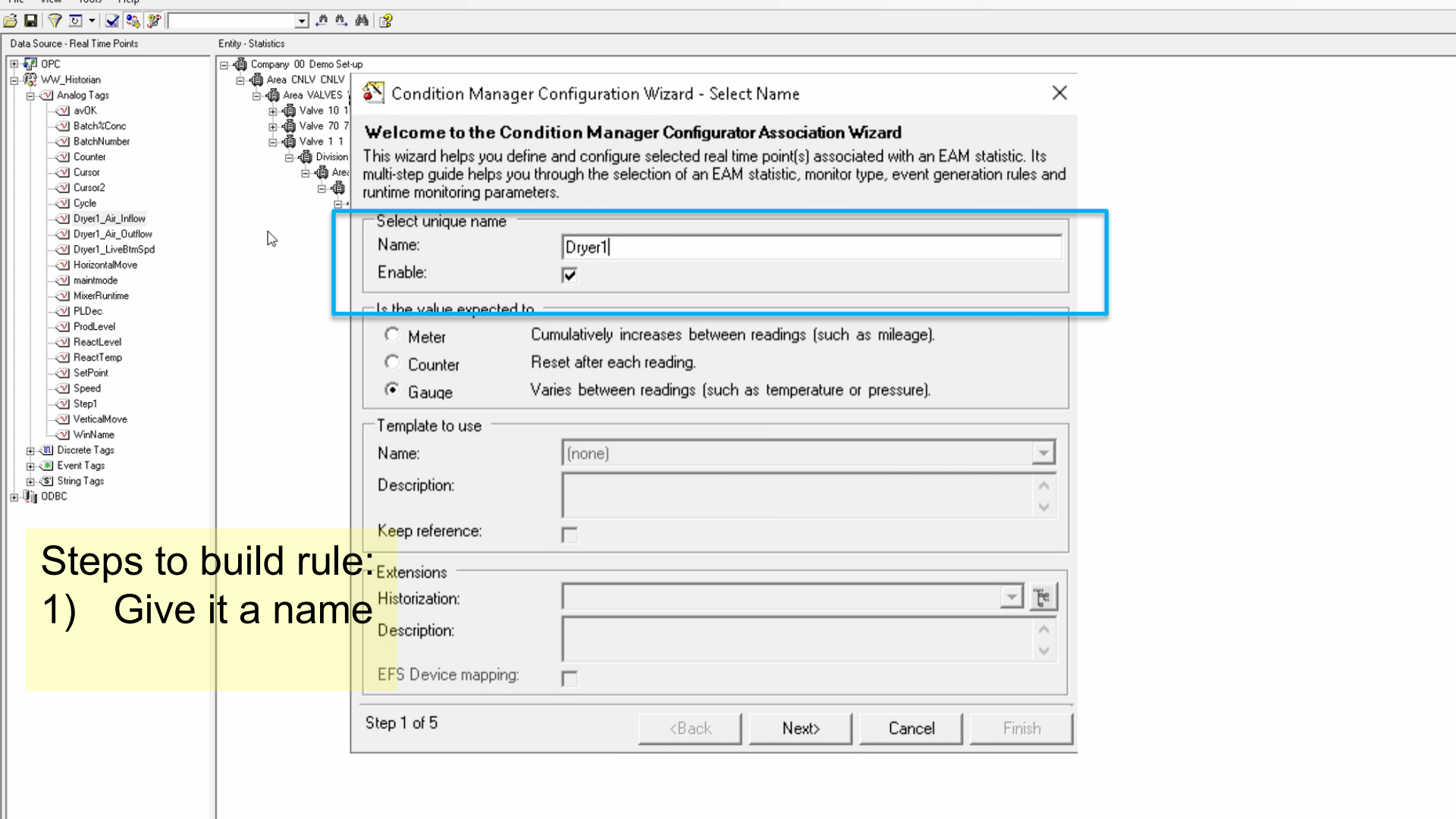
1

2

Quickly configure rules

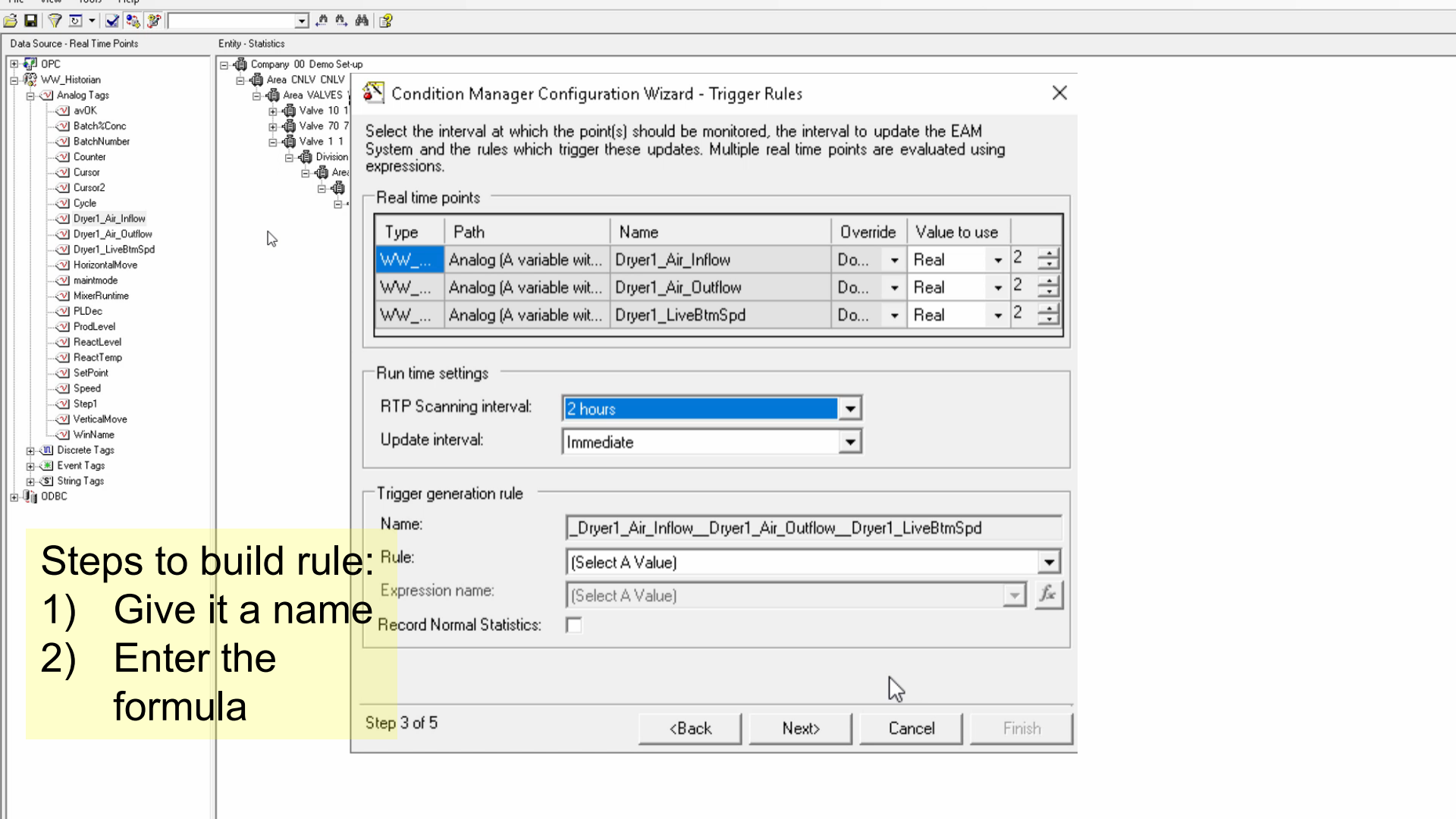

File
View
Tools
Help
Data Source - Real Time Points
OPC
WW_Historian
ODBC
Entity - Statistics
Company 00 Demo Set-up
Data sources
Equipment
Key Points:
- Connects to OPC, ODBC, Historian


Data Source - Real Time Points
Entity - Statistics
OPC
WW_Historian
Analog Tags
avOK
Batch%Conc
BatchNumber
Counter
Cursor
Cursor2
Cycle
Dryer1_Air_Inflow
Dryer1_Air_Outflow
Dryer1_LiveBtmSpd
HorizontalMove
maintmode
MixerRuntime
PLDec
ProdLevel
ReactLevel
ReactTemp
SetPoint
Speed
Step1
VerticalMove
WinName
Discrete Tags
Event Tags
String Tags
ODBC
Company 00 Demo Set-up
Area CNLV CNLV
Area VALVES VALVES
Valve 10 10
Valve 70 70
Valve 1 1
Division 20 Manufacturing
Area 210 Processing
Cost Centre 210-1 Feed Stock System
Component Location 2030 Motor
Component 2030A Motor, CEM2555T, 100HP, 1780RPM, 3PH, 60HZ, 404TC, 4484M, OPSB
Key Points:
- Drag the datapoints involved in the rule onto the piece of equipment
Ready
AWIN10VM
4/19/2019
Type here to search



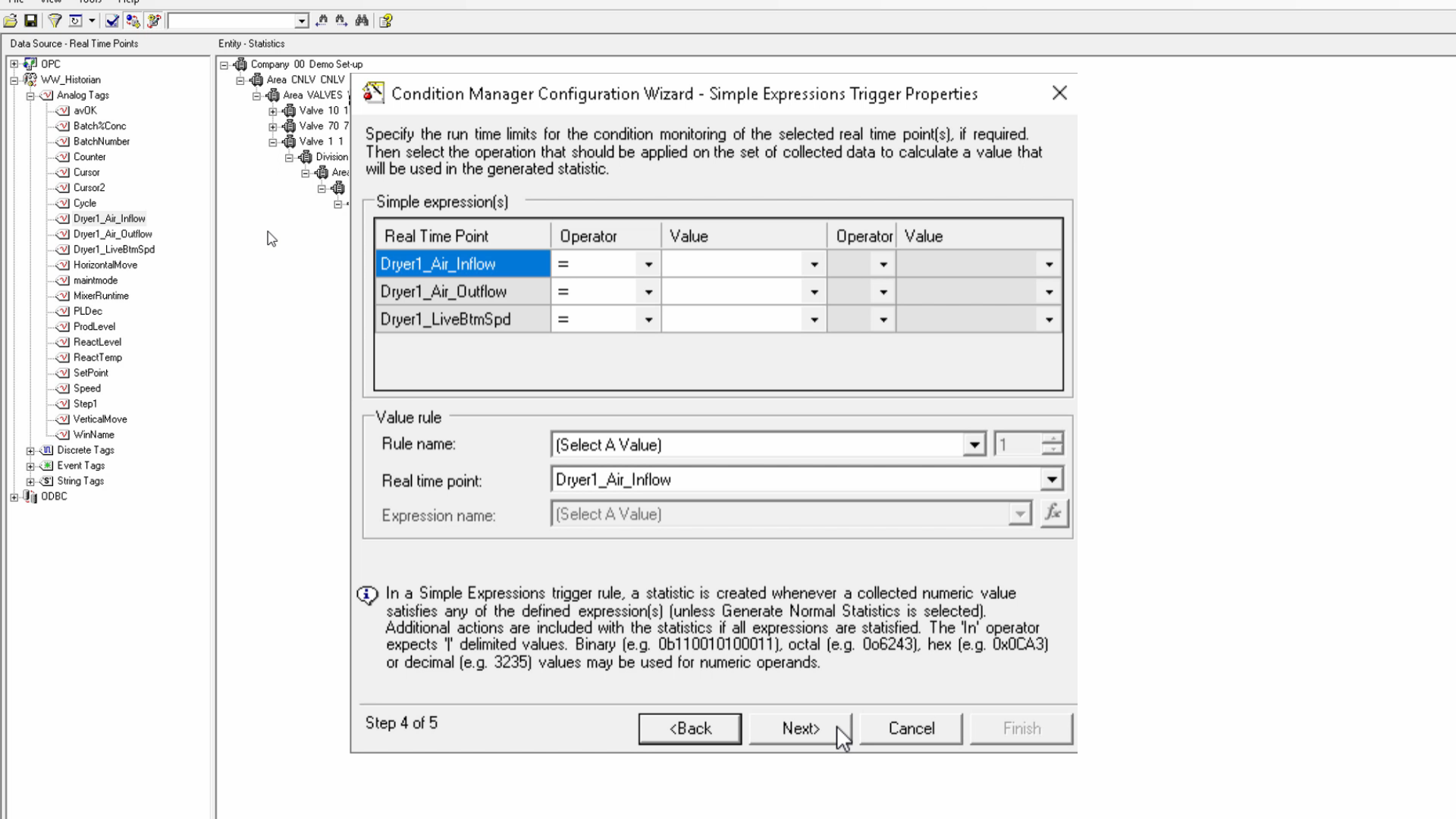
Steps to build rule:

1) Give it a name



Steps to build rule:

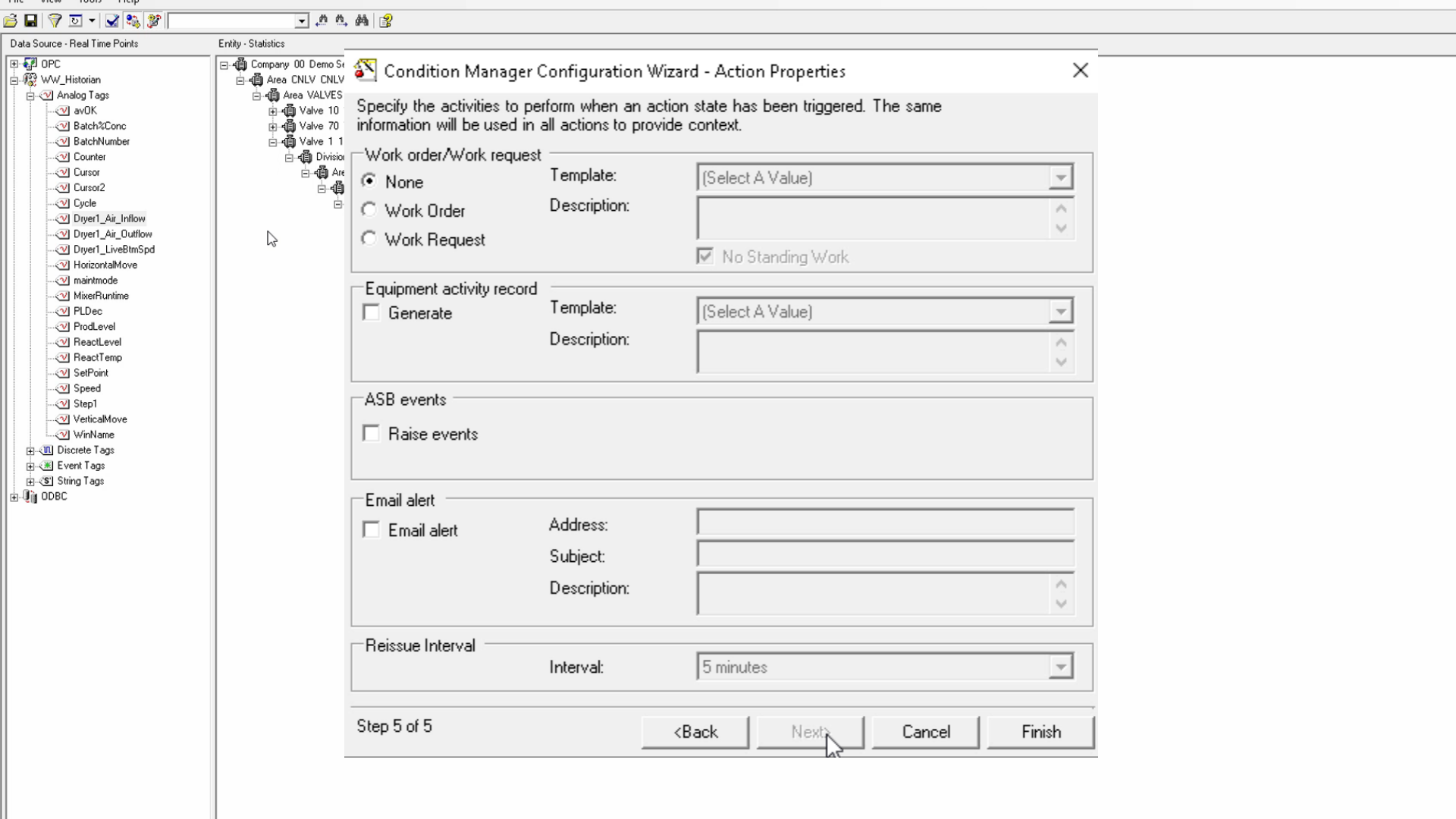
1) Give it a name
2) Enter the formula

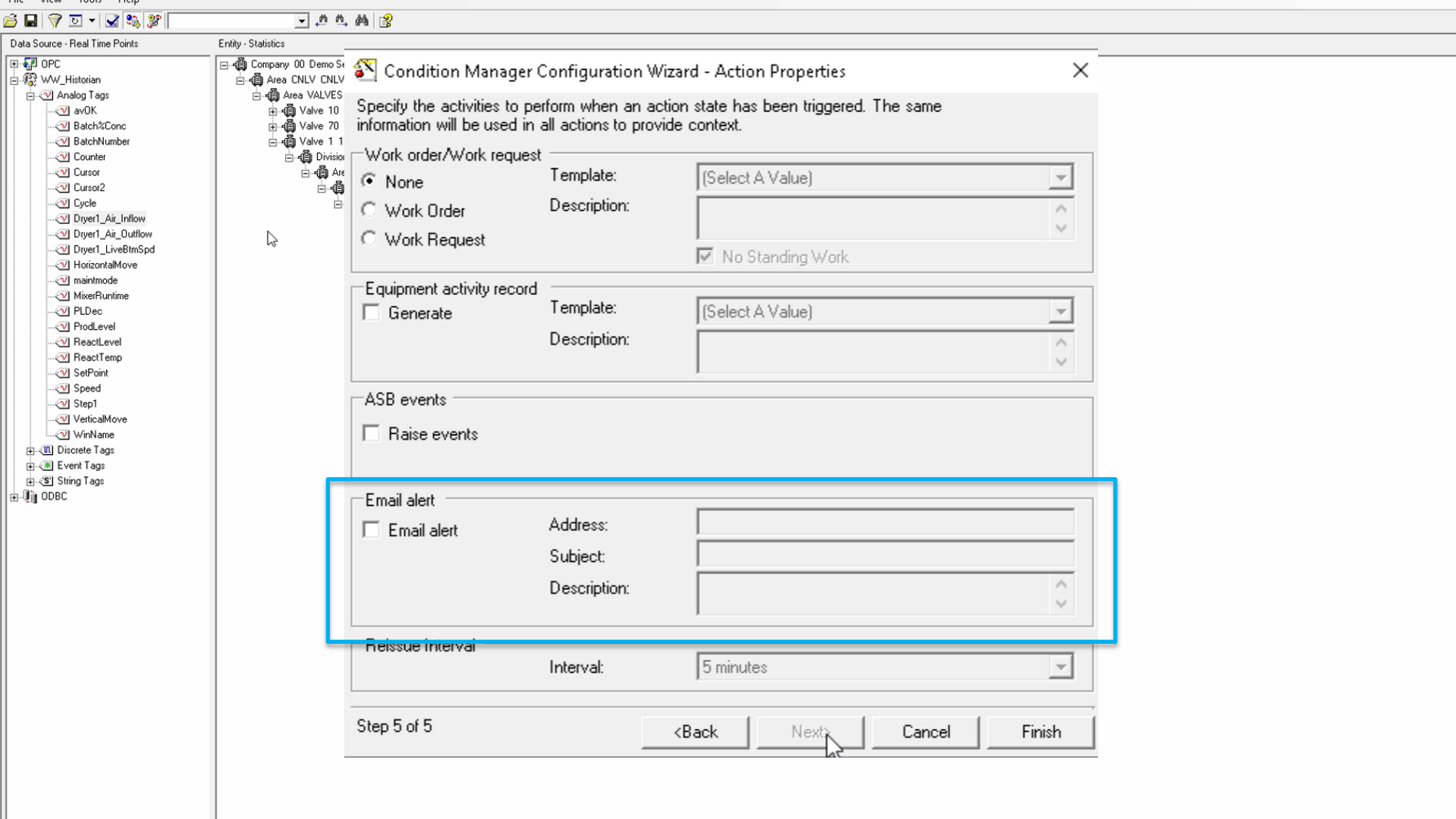

Data Source - Real Time Points
Entity - Statistics
OPC
WW_Historian
Analog Tags
avOK
Batch%Conc
BatchNumber
Counter
Cursor
Cursor2
Cycle
Dryer1_Air_Inflow
Dryer1_Air_Outflow
Dryer1_LiveBtmSpd
HorizontalMove
maintmode
MixerRuntime
PLDec
ProdLevel
ReactLevel
ReactTemp
SetPoint
Speed
Step1
VerticalMove
WinName
Discrete Tags
Event Tags
String Tags
ODBC
Company 00 Demo Set-up
Area CNLV CNLV
Area VALVES
Valve 10 1
Valve 70 7
Valve 1 1
Division
Condition Manager Configuration Wizard - Simple Expressions Trigger Properties
Specify the run time limits for the condition monitoring of the selected real time point(s), if required. Then select the operation that should be applied on the set of collected data to calculate a value that will be used in the generated statistic.
Simple expression(s)
Real Time Point
Operator
Value
Operator
Value
Dryer1_Air_Inflow
=
Dryer1_Air_Outflow
=
Dryer1_LiveBtmSpd
=
Value rule
Rule name:
(Select A Value)
1
Real time point:
Dryer1_Air_Inflow
Expression name:
(Select A Value)
In a Simple Expressions trigger rule, a statistic is created whenever a collected numeric value satisfies any of the defined expression(s) (unless Generate Normal Statistics is selected). Additional actions are included with the statistics if all expressions are satisfied. The 'In' operator expects '|' delimited values. Binary (e.g. 0b110010100011), octal (e.g. 0o6243), hex (e.g. 0x0CA3) or decimal (e.g. 3235) values may be used for numeric operands.
Step 4 of 5
<Back
Next>
Cancel
Finish

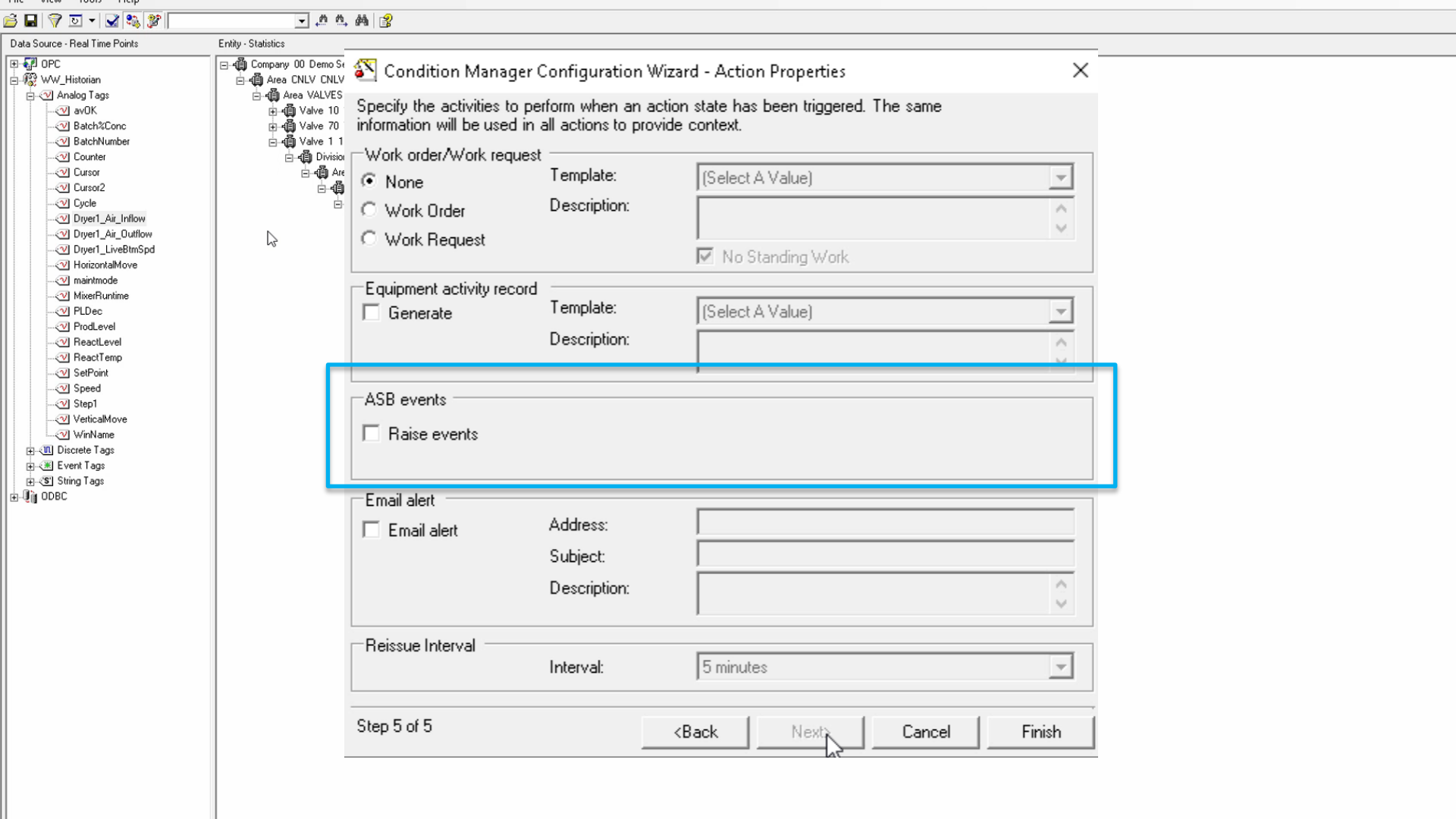
Lets take a look

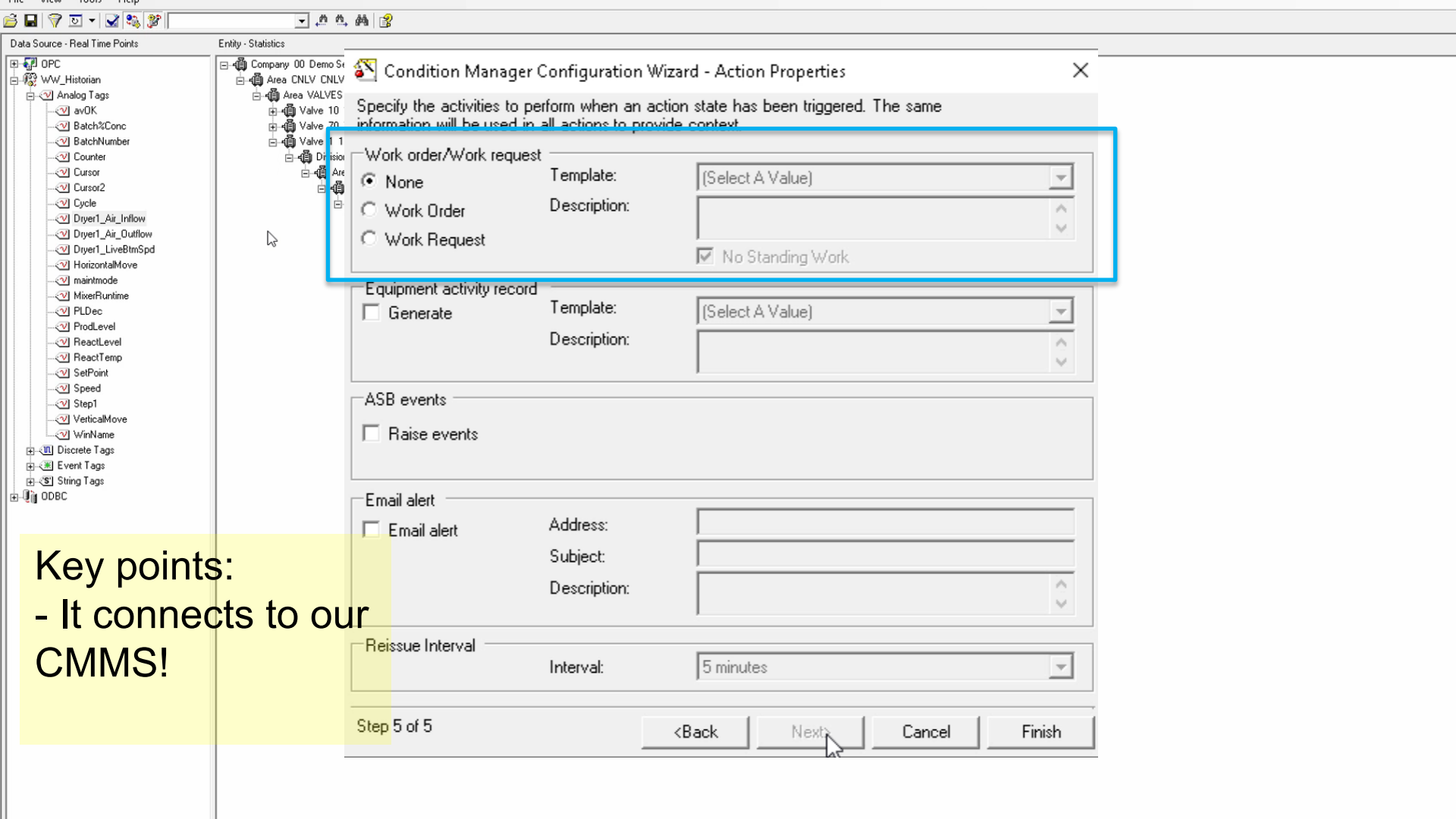
WISH LIST

1. Quickly configure rules ✓
2. Trigger useful responses


Data Source - Real Time Points
Entity - Statistics
OPC
WW_Historian
Analog Tags
avOK
Batch%Conc
BatchNumber
Counter
Cursor
Cursor2
Cycle
Dryer1_Air_Inflow
Dryer1_Air_Outflow
Dryer1_LiveBtmSpd
HorizontalMove
maintmode
MixerRuntime
PLDec
ProdLevel
ReactLevel
ReactTemp
SetPoint
Speed
Step1
VerticalMove
WinName
Discrete Tags
Event Tags
String Tags
ODBC
Company 00 Demo Se
Area CNLV CNLV
Area VALVES
Valve 10
Valve 70
Valve 1 1
Condition Manager Configuration Wizard - Action Properties
Specify the activities to perform when an action state has been triggered. The same information will be used in all actions to provide context.
Work order/Work request
None
Work Order
Work Request
Template:
(Select A Value)
Description:
No Standing Work
Equipment activity record
Generate
Template:
(Select A Value)
Description:
ASB events
Raise events
Email alert
Email alert
Address:
Subject:
Description:
Reissue Interval
Interval:
5 minutes
Step 5 of 5
<Back
Next>
Cancel
Finish


Data Source - Real Time Points
Entity - Statistics
OPC
WW_Historian
Analog Tags
avOK
Batch%Conc
BatchNumber
Counter
Cursor
Cursor2
Cycle
Dryer1_Air_Inflow
Dryer1_Air_Outflow
Dryer1_LiveBtmSpd
HorizontalMove
maintmode
MixerRuntime
PLDec
ProdLevel
ReactLevel
ReactTemp
SetPoint
Speed
Step1
VerticalMove
WinName
Discrete Tags
Event Tags
String Tags
ODBC
Company 00 Demo Se
Area CNLV CNLV
Area VALVES
Valve 10
Valve 70
Valve 1 1
Condition Manager Configuration Wizard - Action Properties
Specify the activities to perform when an action state has been triggered. The same information will be used in all actions to provide context.
Work order/Work request
None
Work Order
Work Request
Template:
(Select A Value)
Description:
No Standing Work
Equipment activity record
Generate
Template:
(Select A Value)
Description:
ASB events
Raise events
Email alert
Email alert
Address:
Subject:
Description:
Reissue Interval
Interval:
5 minutes
Step 5 of 5
<Back
Next>
Cancel
Finish


Data Source - Real Time Points
Entity - Statistics
OPC
WW_Historian
Analog Tags
avOK
Batch%Conc
BatchNumber
Counter
Cursor
Cursor2
Cycle
Dryer1_Air_Inflow
Dryer1_Air_Outflow
Dryer1_LiveBtmSpd
HorizontalMove
maintmode
MixerRuntime
PLDec
ProdLevel
ReactLevel
ReactTemp
SetPoint
Speed
Step1
VerticalMove
WinName
Discrete Tags
Event Tags
String Tags
ODBC
Company 00 Demo Se
Area CNLV CNLV
Area VALVES
Valve 10
Valve 70
Valve 1 1
Condition Manager Configuration Wizard - Action Properties
Specify the activities to perform when an action state has been triggered. The same information will be used in all actions to provide context.
Work order/Work request
None
Work Order
Work Request
Template:
(Select A Value)
Description:
No Standing Work
Equipment activity record
Generate
Template:
(Select A Value)
Description:
ASB events
Raise events
Email alert
Email alert
Address:
Subject:
Description:
Reissue Interval
Interval:
5 minutes
Step 5 of 5
<Back
Next>
Cancel
Finish



Key points:
- It connects to our CMMS!

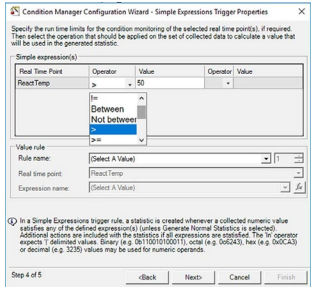
Lets take a look

WISH LIST

1. Quickly configure rules
2. Trigger useful responses

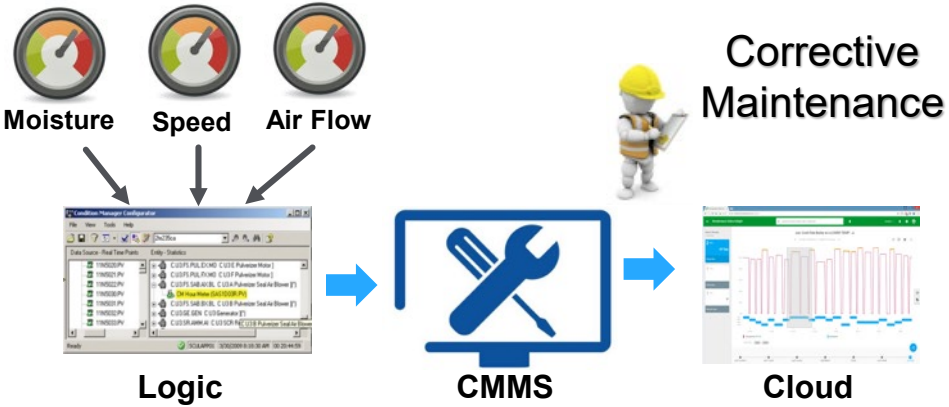
Summary – Digitize w/ Real time Condition Maintenance

- Unplanned outages represent an average of 5% in lost production. Total impact is often much more significant.
- Over 25% of maintenance done today is unnecessary and can introduce additional failure risks



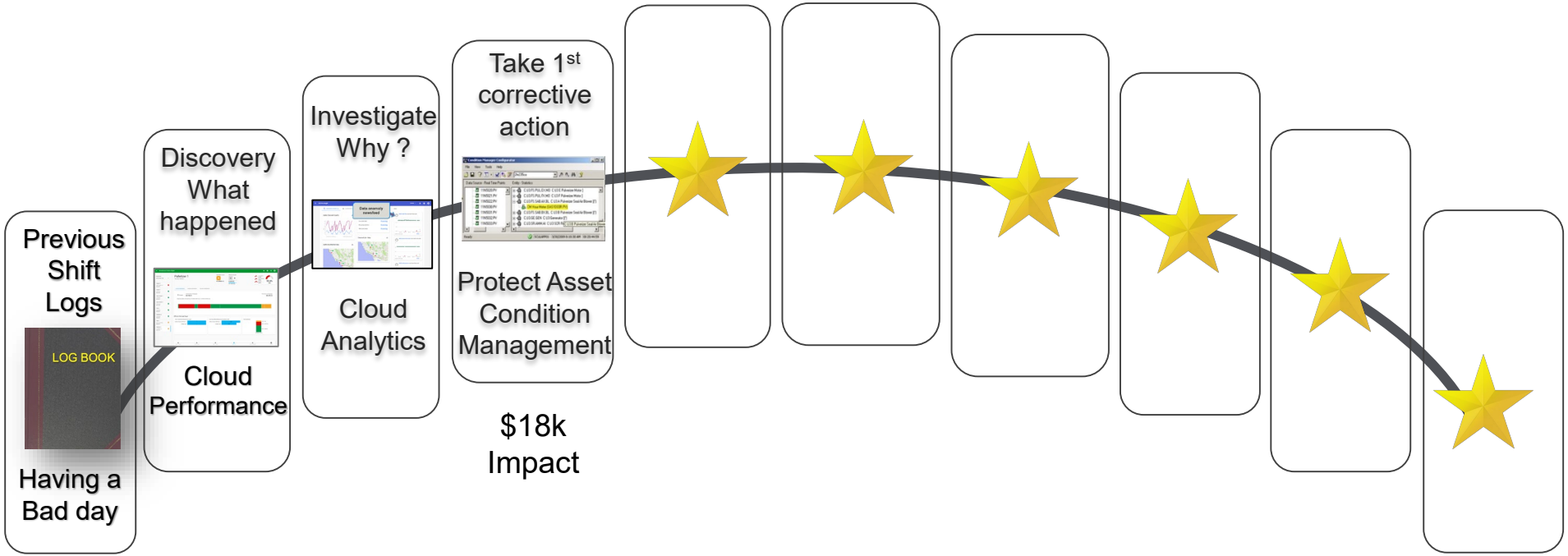
Condition Manager

1. Reduces downtime by predicting failure from rules we determine
2. Reduce costs of unnecessary maintenance
3. Connects to our existing automation systems and Historian

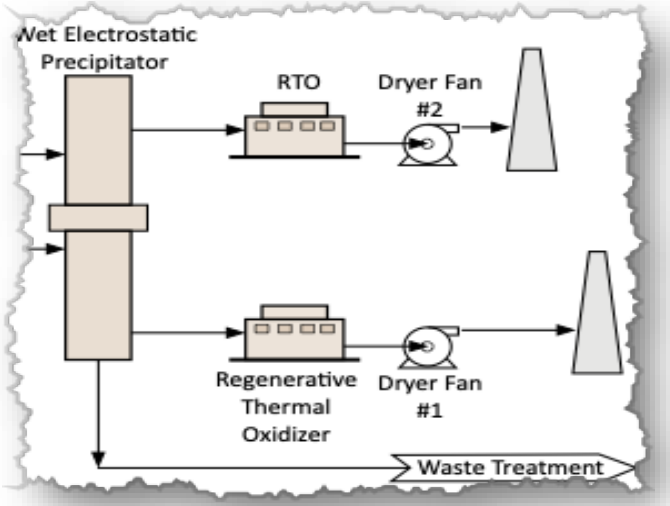


Our journey today – the cadence of the shift

Steps toward being more Digitized

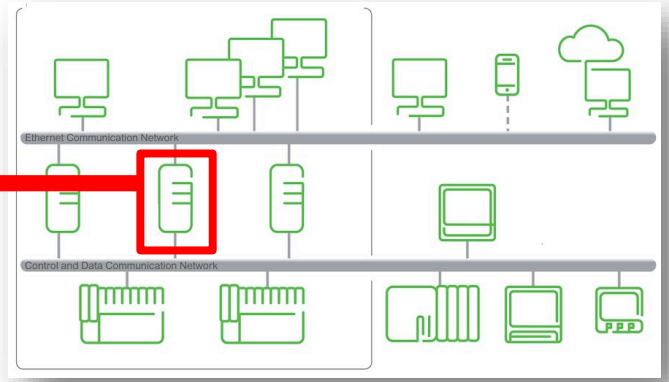


Monitor and manage industrial systems

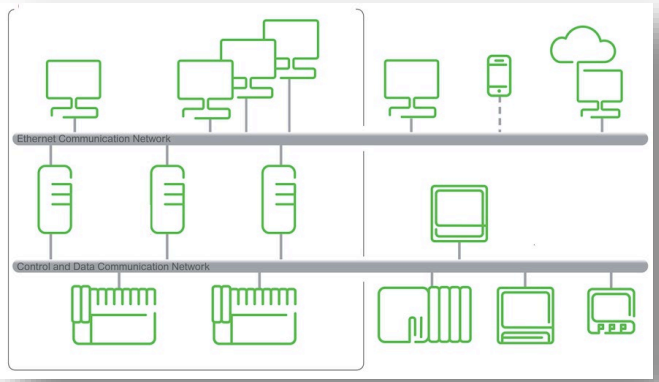


1. We've lost critical environmental data due to failures in server based systems
2. While this did not cause downtime, it caused us environmental excursions
3. An excursion may cause a loss of permit

- RTO F^{O}
- Air flow
- ESP DP
- Stack VOC
- NOX
- Stack F^{O}



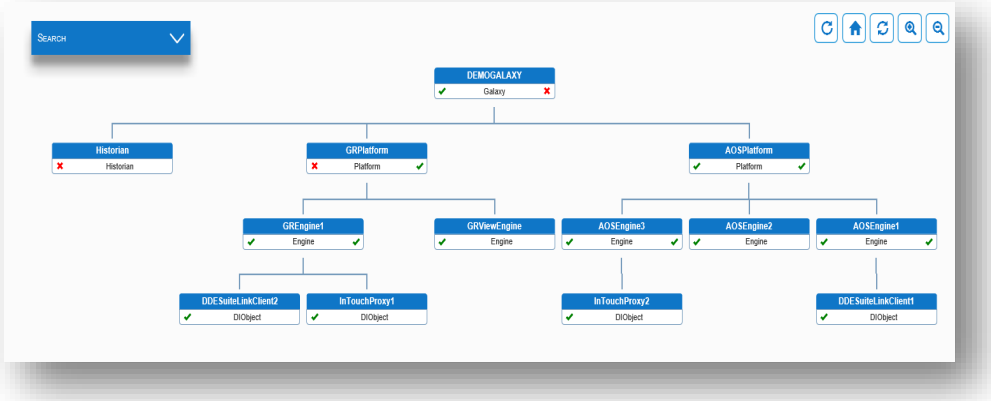
How we're addressing the issue

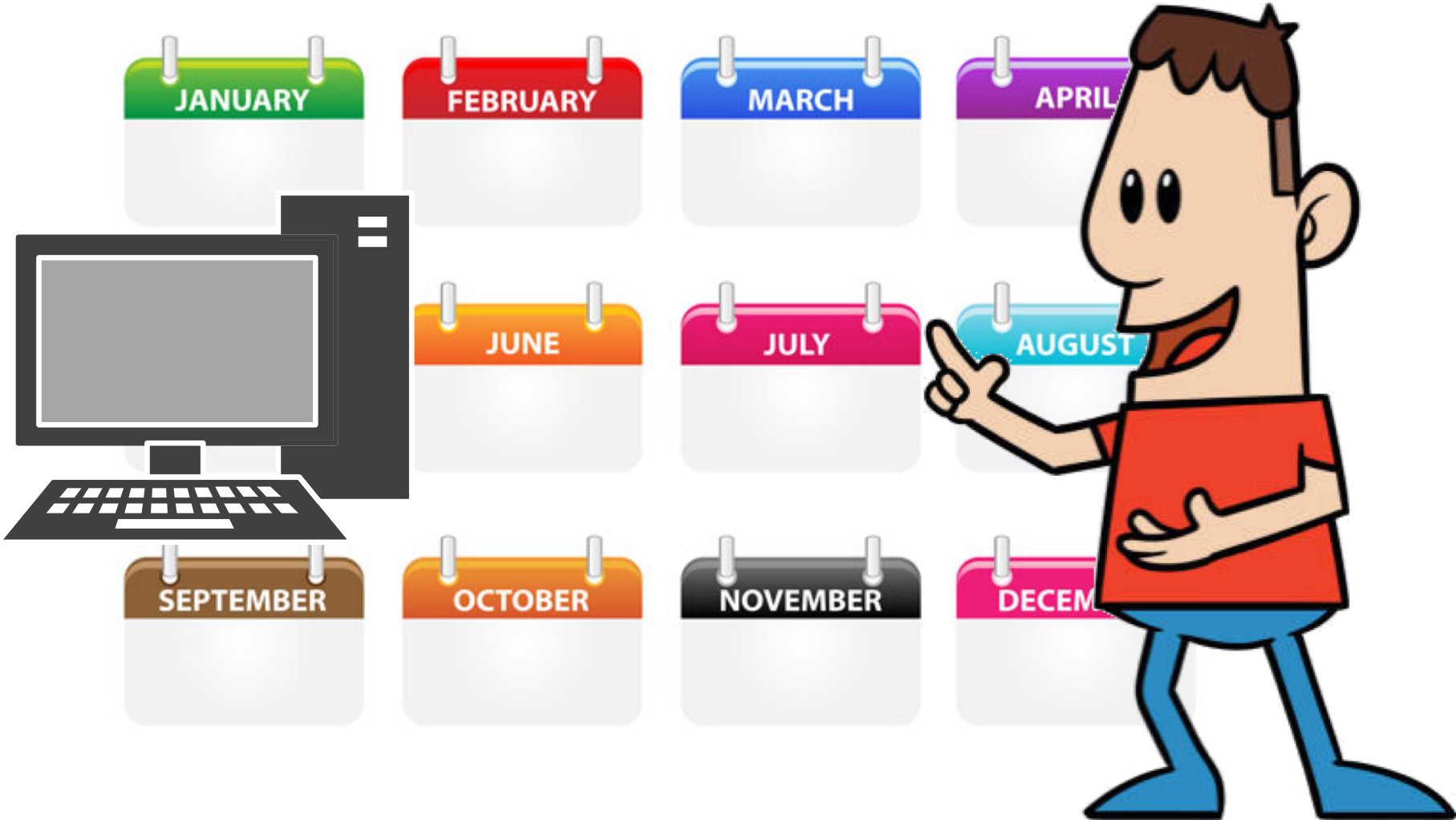


1. Prevent loss of critical IT system assets required to run the plant
2. Purpose built to monitor hardware, memory, drives, software, applications
3. Provide advanced notification of possible failures. Remote monitoring.

Outsourced

Lets take a look




JANUARY
FEBRUARY
MARCH
APRIL
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER
DECEM

JANUARY
FEBRUARY
MAR
APRIL
MAY
UGUST
SEPTEMBER
DECEMBER

2:30A	Core Dryer Back online (Down 1:20 Min)
3:16A	Lost environmental Data. Called Automation Team.
3:20A	Surface Debarker Jam, Removed Obstruction / Restarted
3:28A	Wellows Furnace Low Temp Alarm: Reset
3:36A	Flaker high vibration Alarm. Reset & Called Maint.
3:42A	Safety Walk started.
3:46A	Still no environmental Data. RTO's ok but no Data
3:55A	Metal Detect on Forming Belt. No Problems discovered
4:01A	Multiple Fire Detects on Core Dryer. Greycon Activated
4:15A	Core Flaker Down. Notified Maint.
4:40A	Maint Notified us that Flak[illegible] in a while 7AM predict.
5:00A	Flakers still Down. Proj[illegible] 7AM
6:55A	Core Flaker back online.
	Production Goal 466, Actual [illegible]
	95.5 A Grade, 1.5 Shop
	DT 2-0.
7:08	Environmental data Back online.
	Shift Handover.

Lets take a look

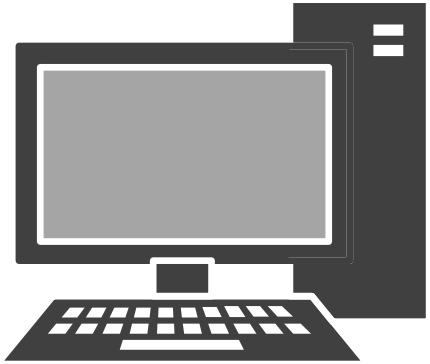
WISH LIST

1

2

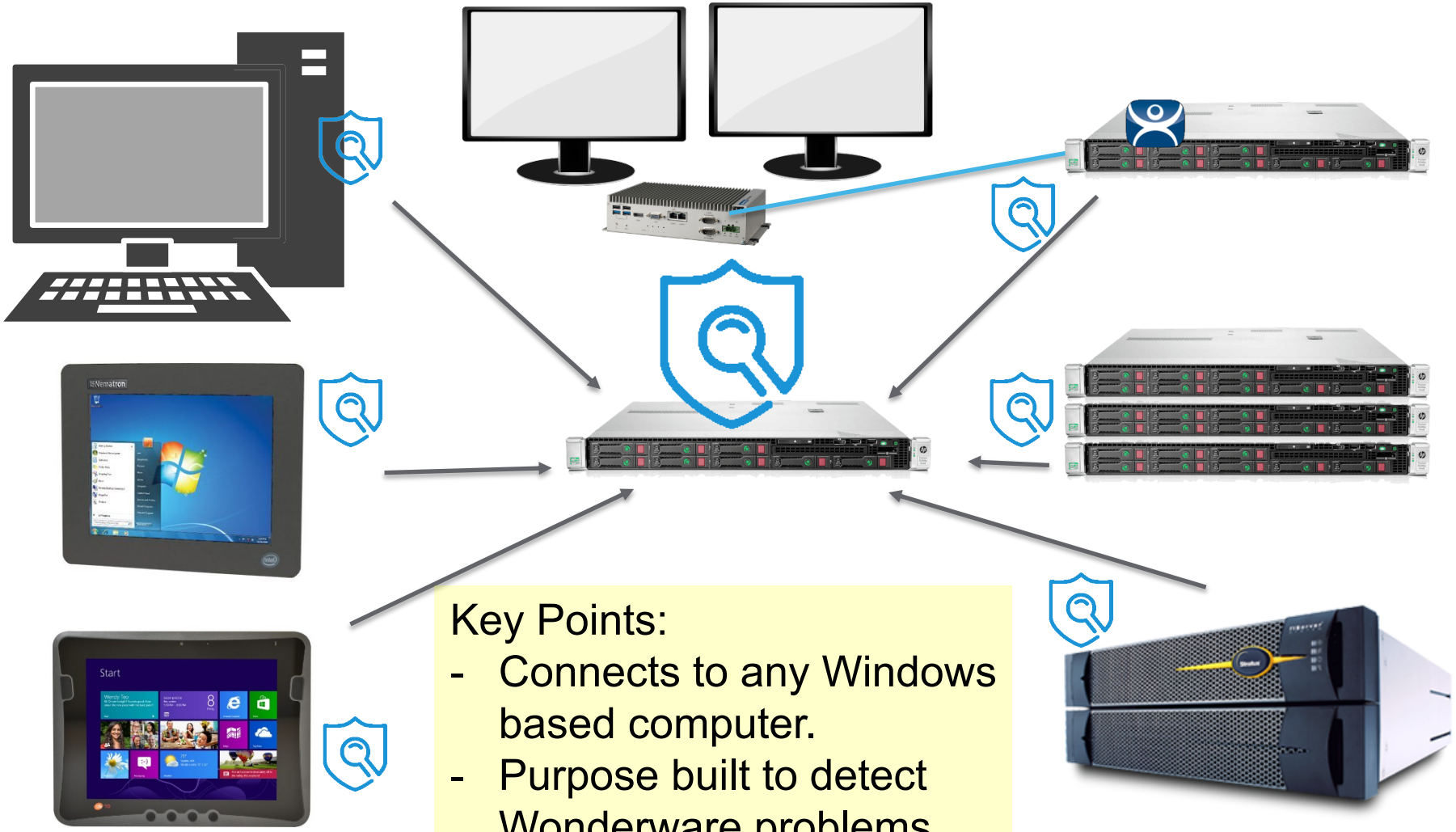
3

Automatic monitoring of industrial computers



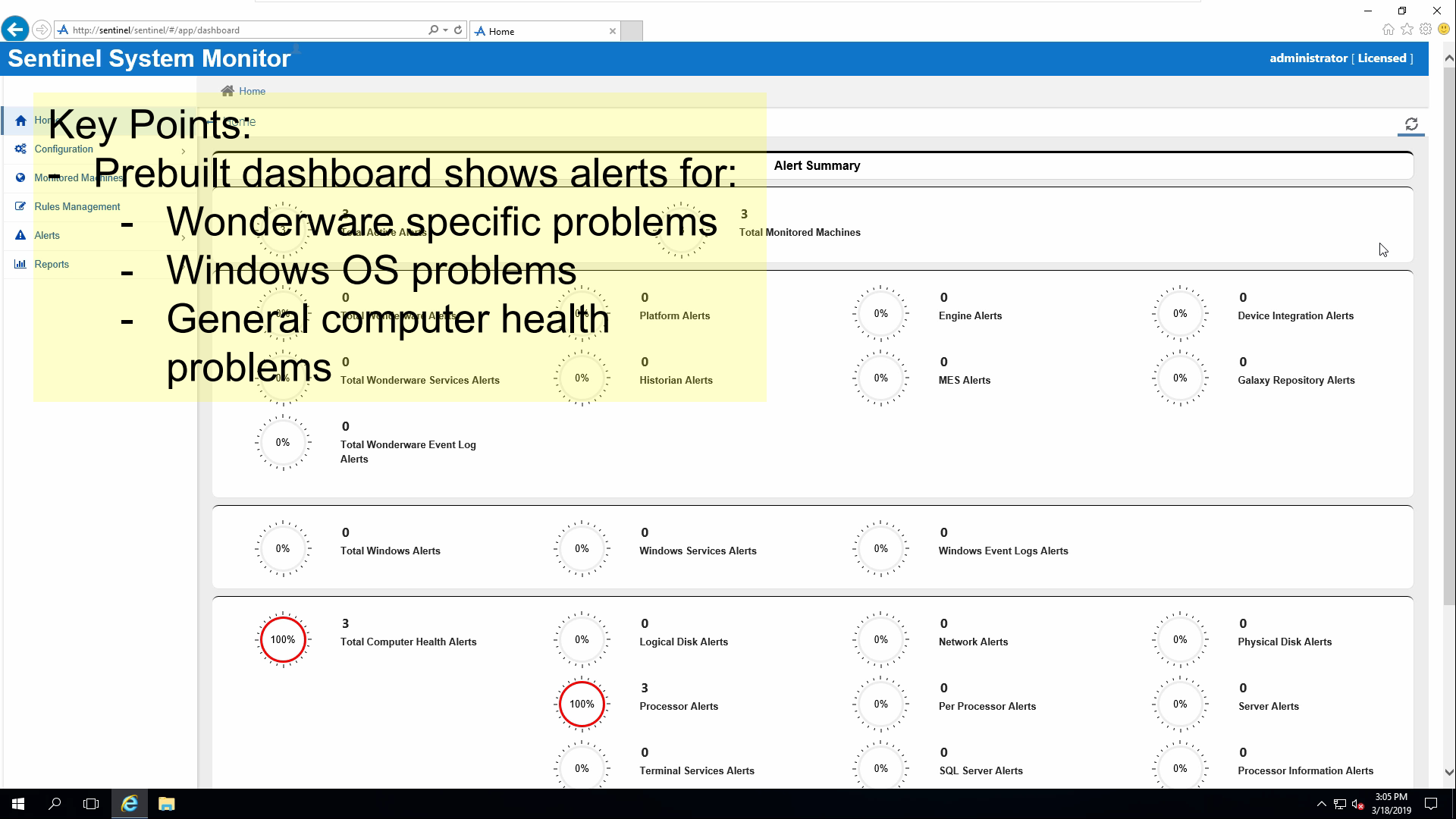
Nematron

Start



Key Points:

- Connects to any Windows based computer.
- Purpose built to detect Wonderware problems.



Key Points:

- Prebuilt dashboard shows alerts for:
  - Wonderware specific problems
  - Windows OS problems
  - General computer health problems

Sentinel System Monitor

Home
Home
Home
Configuration
Monitored Machines
Rules Management
Alerts
Reports

Alert Summary

3
Total Active Alerts

3
Total Monitored Machines

0
Total Wonderware Alerts

0
Platform Alerts

0
Engine Alerts

0
Device Integration Alerts

0
Total Wonderware Services Alerts

0
Historian Alerts

0
MES Alerts

0
Galaxy Repository Alerts

0
Total Wonderware Event Log Alerts

0
Total Windows Alerts

0
Windows Services Alerts

0
Windows Event Logs Alerts

3
Total Computer Health Alerts

0
Logical Disk Alerts

0
Network Alerts

0
Physical Disk Alerts

3
Processor Alerts

0
Per Processor Alerts

0
Server Alerts

0
Terminal Services Alerts

0
SQL Server Alerts

0
Processor Information Alerts

Sentinel System Monitor

Home
Home
Home
Configuration
Monitored Machines
Rules Management
Alerts
Reports

Alert Summary

3	**3** Total Active Alerts
3	**3** Total Monitored Machines

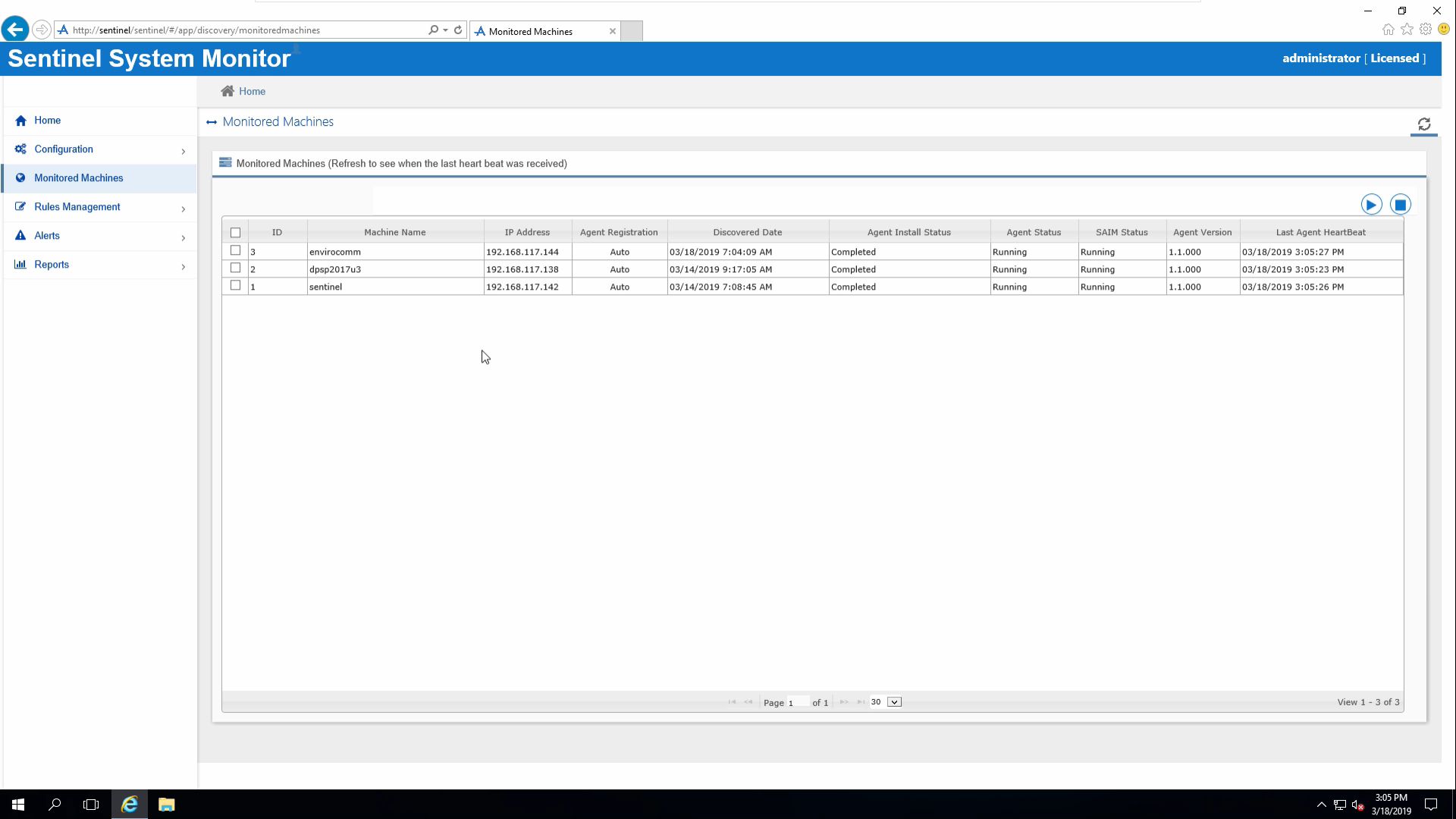
0%	**0** Total Wonderware Alerts	0%	**0** Platform Alerts
0%	**0** Total Wonderware Services Alerts	0%	**0** Historian Alerts
0%	**0** Total Wonderware Event Log Alerts		

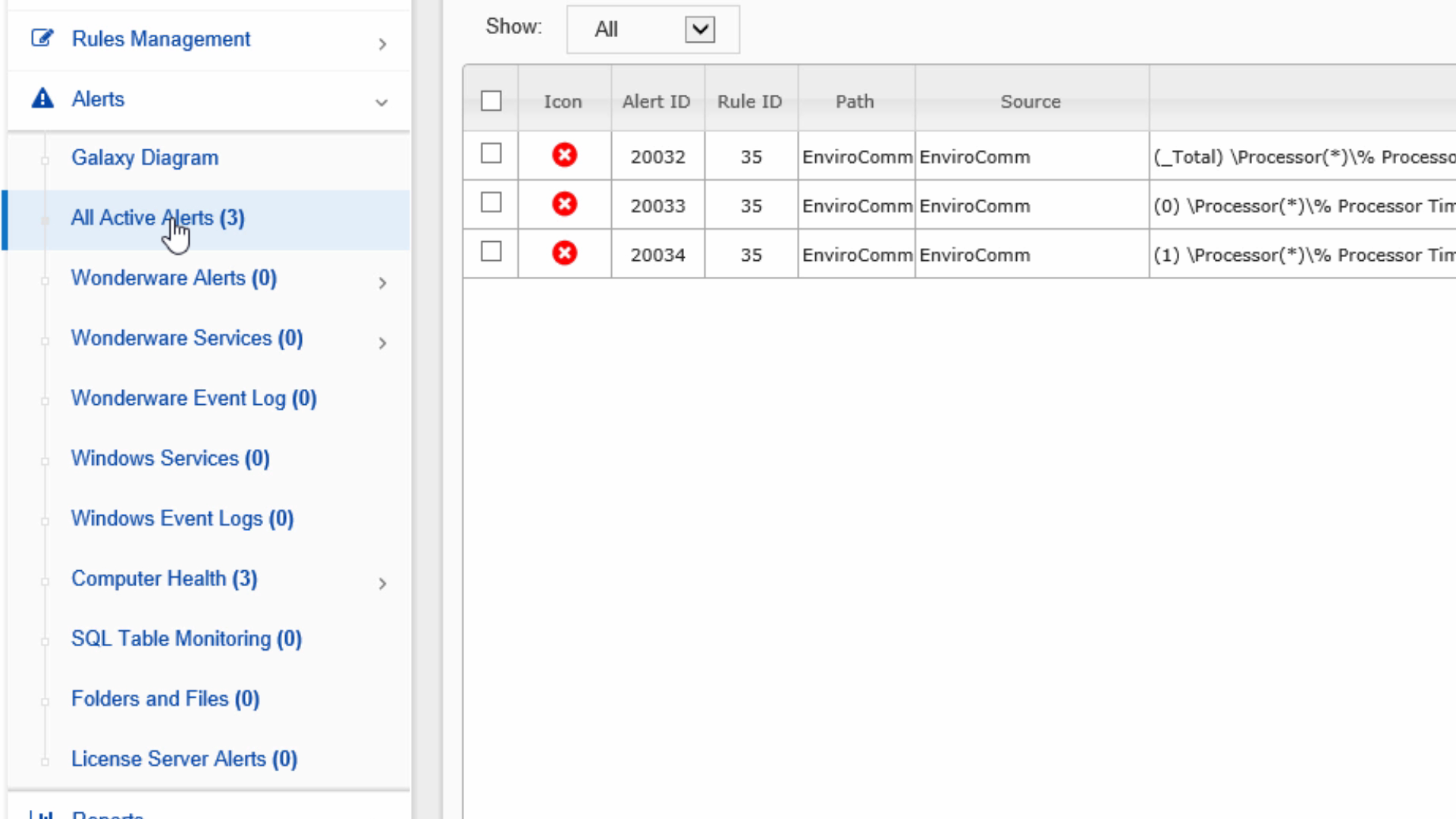
0%	**0** Engine Alerts	0%	**0** Device Integration Alerts
0%	**0** MES Alerts	0%	**0** Galaxy Repository Alerts

0%	**0** Total Windows Alerts	0%	**0** Windows Services Alerts
0%	**0** Windows Event Logs Alerts		

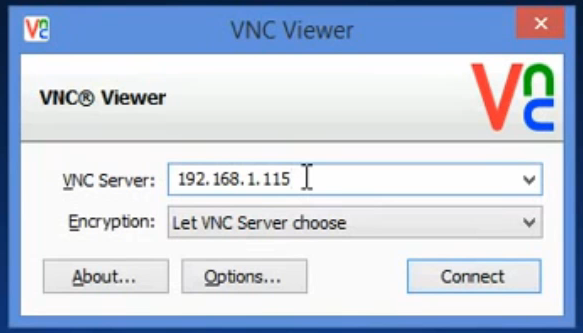
100%	**3** Total Computer Health Alerts	0%	**0** Logical Disk Alerts
100%	**3** Processor Alerts	0%	**0** Terminal Services Alerts

0%	**0** Network Alerts	0%	**0** Physical Disk Alerts
0%	**0** Per Processor Alerts	0%	**0** Server Alerts
0%	**0** SQL Server Alerts	0%	**0** Processor Information Alerts


http://sentinel/sentinel/#/app/discovery/monitoredmachines
Monitored Machines
Sentinel System Monitor
administrator [Licensed]
Home
Home
Configuration
Monitored Machines
Rules Management
Alerts
Reports
Monitored Machines
Monitored Machines (Refresh to see when the last heart beat was received)
ID
Machine Name
IP Address
Agent Registration
Discovered Date
Agent Install Status
Agent Status
SAIM Status
Agent Version
Last Agent HeartBeat
3
envirocomm
192.168.117.144
Auto
03/18/2019 7:04:09 AM
Completed
Running
Running
1.1.000
03/18/2019 3:05:27 PM
2
dpsp2017u3
192.168.117.138
Auto
03/14/2019 9:17:05 AM
Completed
Running
Running
1.1.000
03/18/2019 3:05:23 PM
1
sentinel
192.168.117.142
Auto
03/14/2019 7:08:45 AM
Completed
Running
Running
1.1.000
03/18/2019 3:05:26 PM
Page 1 of 1
30
View 1 - 3 of 3
3:05 PM
3/18/2019


Rules Management
Alerts
Galaxy Diagram
All Active Alerts (3)
Wonderware Alerts (0)
Wonderware Services (0)
Wonderware Event Log (0)
Windows Services (0)
Windows Event Logs (0)
Computer Health (3)
SQL Table Monitoring (0)
Folders and Files (0)
License Server Alerts (0)
Show:
All
Icon
Alert ID
Rule ID
Path
Source
20032
35
EnviroComm
EnviroComm
(_Total) \Processor(*)\% Processo
20033
35
EnviroComm
EnviroComm
(0) \Processor(*)\% Processor Tim
20034
35
EnviroComm
EnviroComm
(1) \Processor(*)\% Processor Tim

Source	Name	Occurence Count	Age
EnviroComm	(_Total) \Processor(*)\% Processor Time	2	0 days, 0 hours, 6 m
EnviroComm	(0) \Processor(*)\% Processor Time	2	0 days, 0 hours, 6 m
EnviroComm	(1) \Processor(*)\% Processor Time	1	0 days, 0 hours, 5 m



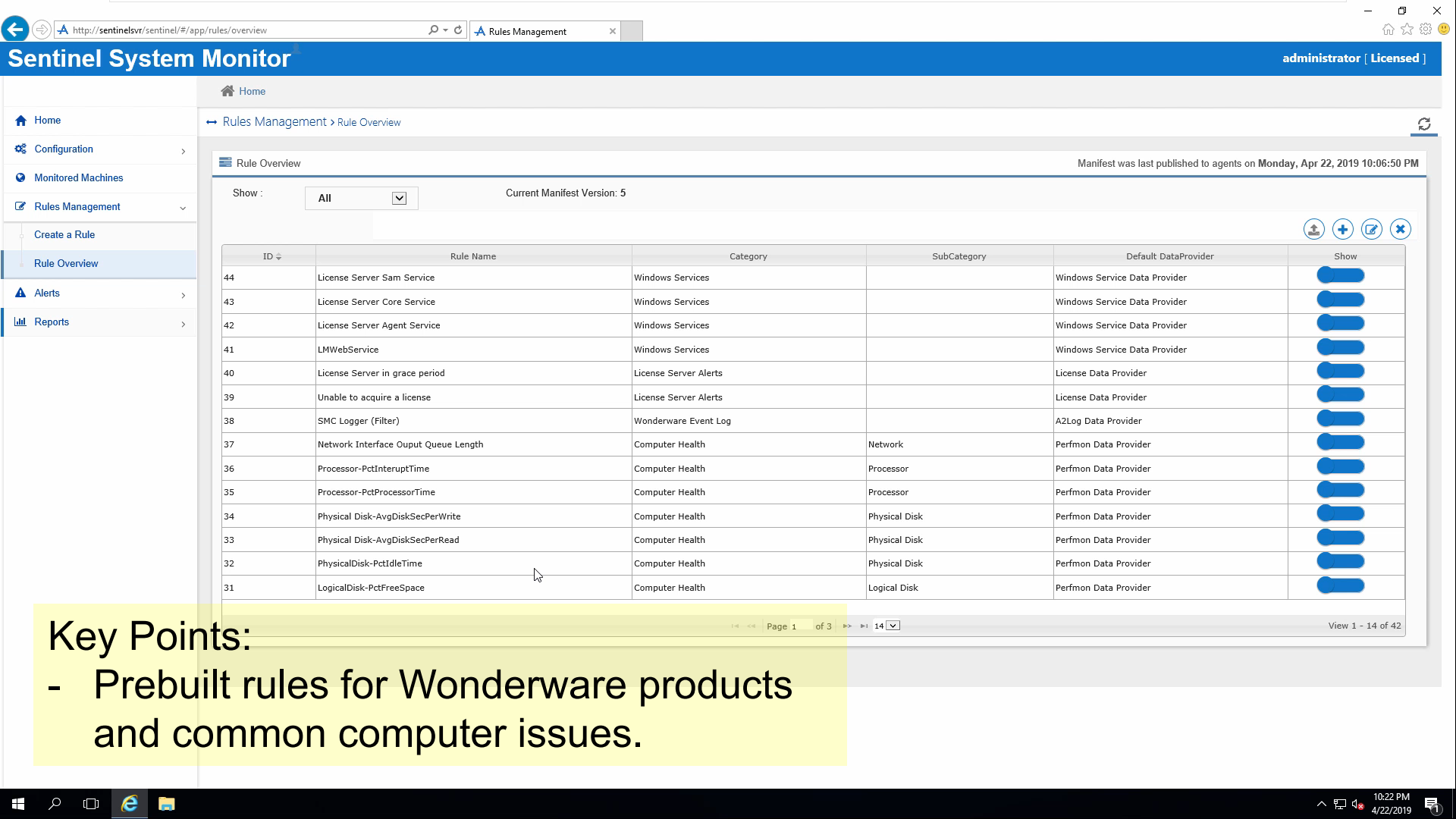
Key Points:

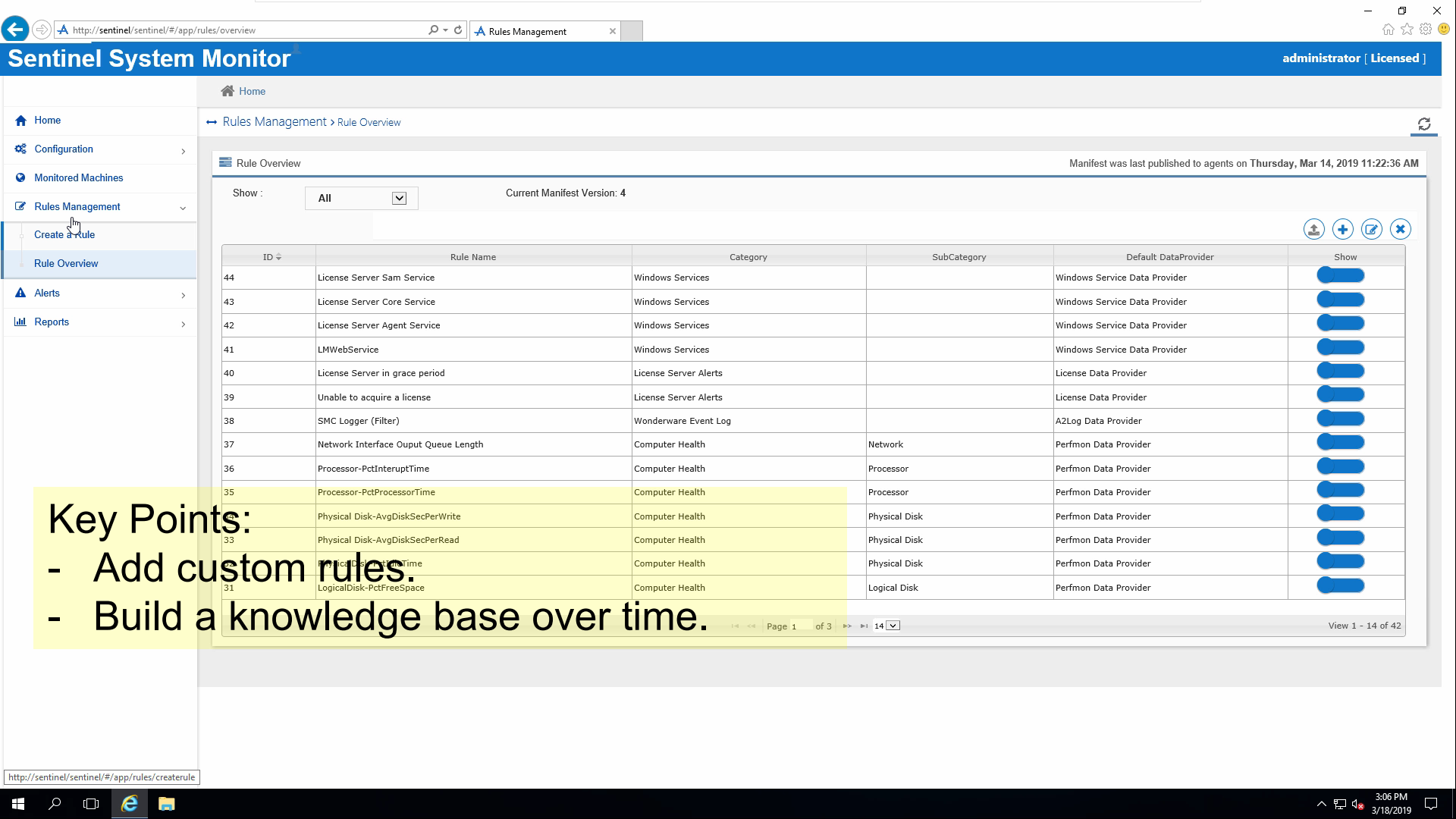
- Video games are bad for production.

Lets take a look

WISH LIST

1. Automatic monitoring of industrial computers ✓
2. Ability to configure custom rules
3.

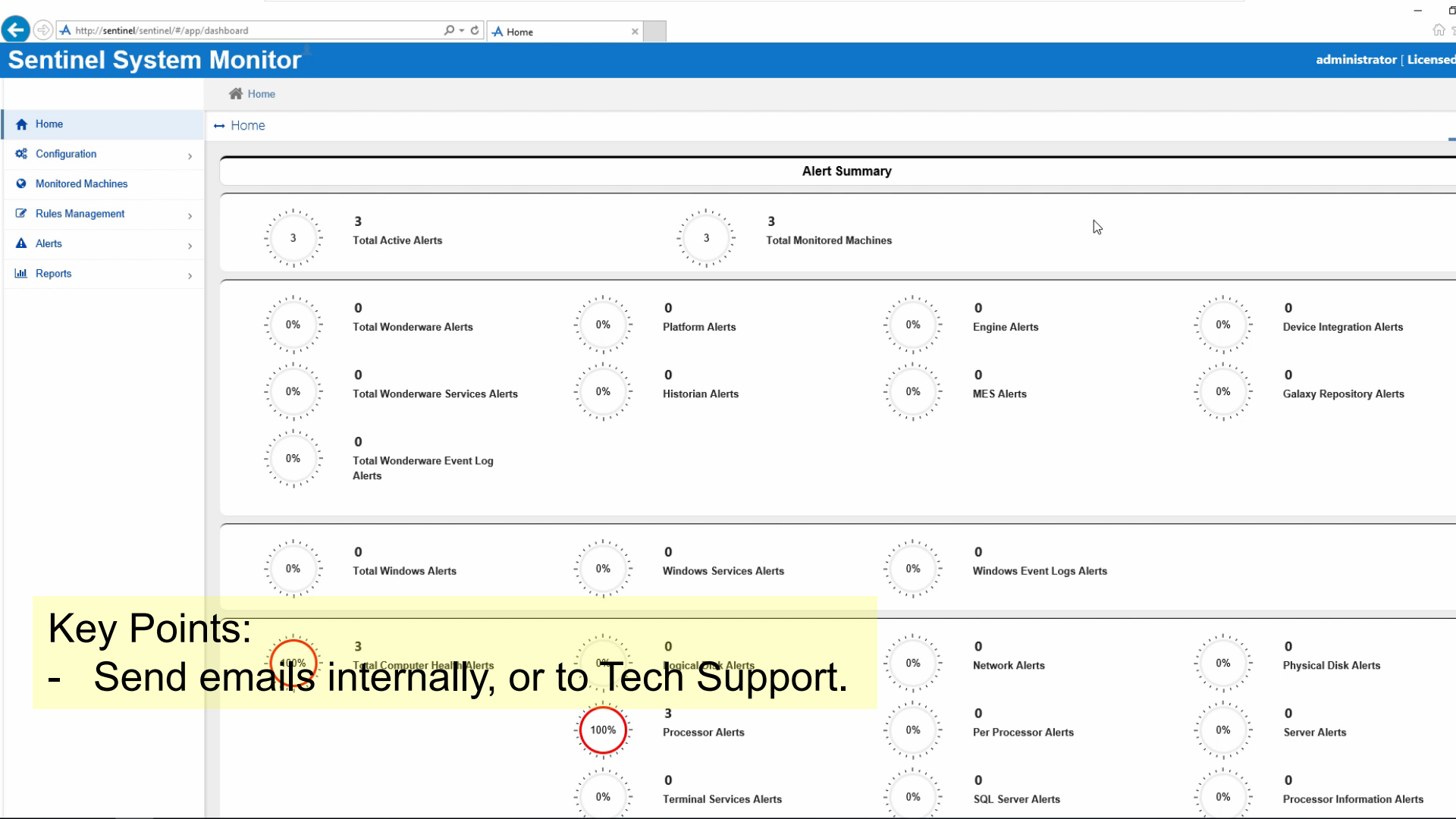

http://sentinelsvr/sentinel/#/app/rules/overview
Rules Management
Sentinel System Monitor
administrator [Licensed]
Home
Home
Configuration
Monitored Machines
Rules Management
Create a Rule
Rule Overview
Alerts
Reports
Rules Management › Rule Overview
Rule Overview
Manifest was last published to agents on Monday, Apr 22, 2019 10:06:50 PM
Show :
All
Current Manifest Version: 5
ID
Rule Name
Category
SubCategory
Default DataProvider
Show
44 License Server Sam Service Windows Services Windows Service Data Provider
43 License Server Core Service Windows Services Windows Service Data Provider
42 License Server Agent Service Windows Services Windows Service Data Provider
41 LMWebService Windows Services Windows Service Data Provider
40 License Server in grace period License Server Alerts License Data Provider
39 Unable to acquire a license License Server Alerts License Data Provider
38 SMC Logger (Filter) Wonderware Event Log A2Log Data Provider
37 Network Interface Ouput Queue Length Computer Health Network Perfmon Data Provider
36 Processor-PctInteruptTime Computer Health Processor Perfmon Data Provider
35 Processor-PctProcessorTime Computer Health Processor Perfmon Data Provider
34 Physical Disk-AvgDiskSecPerWrite Computer Health Physical Disk Perfmon Data Provider
33 Physical Disk-AvgDiskSecPerRead Computer Health Physical Disk Perfmon Data Provider
32 PhysicalDisk-PctIdleTime Computer Health Physical Disk Perfmon Data Provider
31 LogicalDisk-PctFreeSpace Computer Health Logical Disk Perfmon Data Provider
Page 1 of 3
14
View 1 - 14 of 42
Key Points:
- Prebuilt rules for Wonderware products and common computer issues.
10:22 PM
4/22/2019


http://sentinel/sentinel/#/app/rules/overview
Rules Management
Sentinel System Monitor
administrator [Licensed]
Home
Configuration
Monitored Machines
Rules Management
Create a Rule
Rule Overview
Alerts
Reports
Home
Rules Management › Rule Overview
Rule Overview
Manifest was last published to agents on Thursday, Mar 14, 2019 11:22:36 AM
Show :
All
Current Manifest Version: 4
ID
Rule Name
Category
SubCategory
Default DataProvider
Show
44 License Server Sam Service Windows Services Windows Service Data Provider
43 License Server Core Service Windows Services Windows Service Data Provider
42 License Server Agent Service Windows Services Windows Service Data Provider
41 LMWebService Windows Services Windows Service Data Provider
40 License Server in grace period License Server Alerts License Data Provider
39 Unable to acquire a license License Server Alerts License Data Provider
38 SMC Logger (Filter) Wonderware Event Log A2Log Data Provider
37 Network Interface Ouput Queue Length Computer Health Network Perfmon Data Provider
36 Processor-PctInteruptTime Computer Health Processor Perfmon Data Provider
35 Processor-PctProcessorTime Computer Health Processor Perfmon Data Provider
Physical Disk-AvgDiskSecPerWrite Computer Health Physical Disk Perfmon Data Provider
33 Physical Disk-AvgDiskSecPerRead Computer Health Physical Disk Perfmon Data Provider
Computer Health Physical Disk Perfmon Data Provider
31 LogicalDisk-PctFreeSpace Computer Health Logical Disk Perfmon Data Provider
Page 1 of 3
14
View 1 - 14 of 42
Key Points:
- Add custom rules.
- Build a knowledge base over time.
http://sentinel/sentinel/#/app/rules/createrule
3:06 PM
3/18/2019

Lets take a look

WISH LIST

1. Automatic monitoring of industrial computers ✓
2. Ability to configure custom rules ✓
3. Notification before major problems



Key Points:

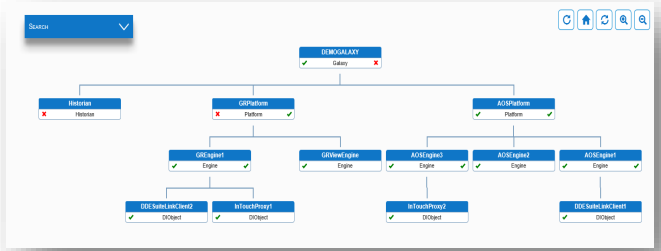
- Send emails internally, or to Tech Support.

Lets take a look

WISH LIST

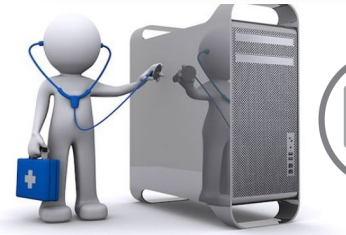
1. Automatic monitoring of industrial computers
2. Ability to configure custom rules
3. Notification before major problems

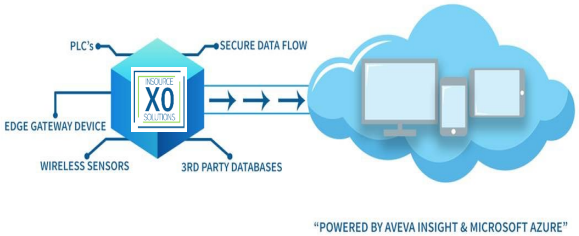
Summary – Digitize System Health



Sentinel System Monitor

1. Purpose built, centralized monitoring of system health in a single application
2. Early detection of developing performance issues
3. OS, Bare metal, Disk, Memory, Platforms, Applications

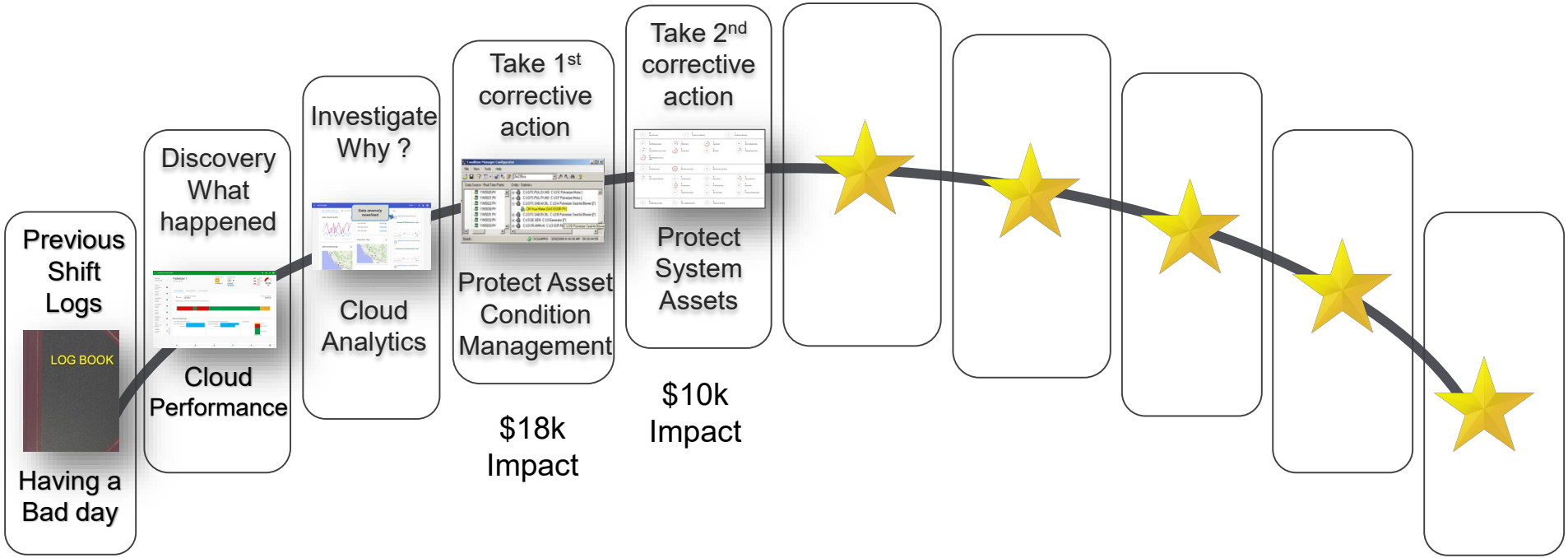




Ownership options: Subscription or Perpetual

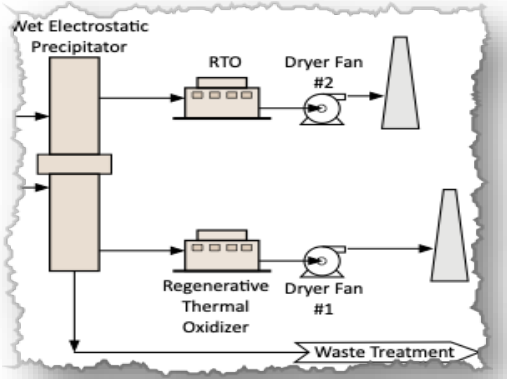
Our journey today – the cadence of the shift

Steps toward being more Digitized

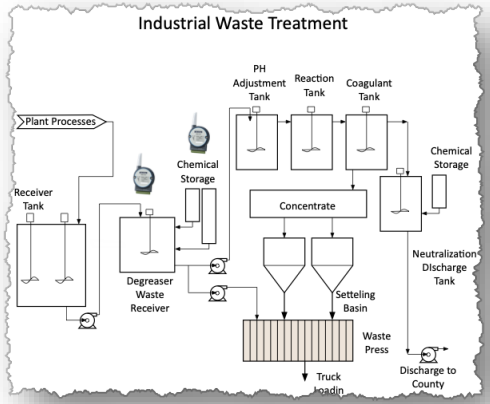


Remote HMI for Operations

Upgrade Old

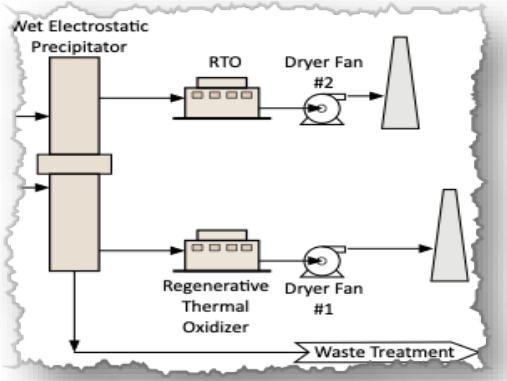


New Installation

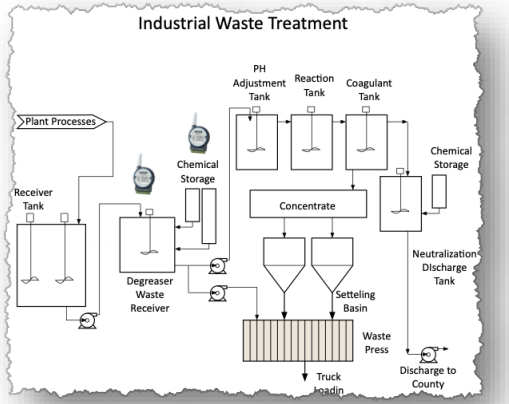


How we're addressing the issue

Upgrade Old



Install New



1. HMI platform that will facilitate the needs of Operations and Maintenance (Mobile)
2. Lower cost AND rich functionality that will convert existing PanelMate screens
3. Integrates to our existing and new controls, Historian, and Platforms

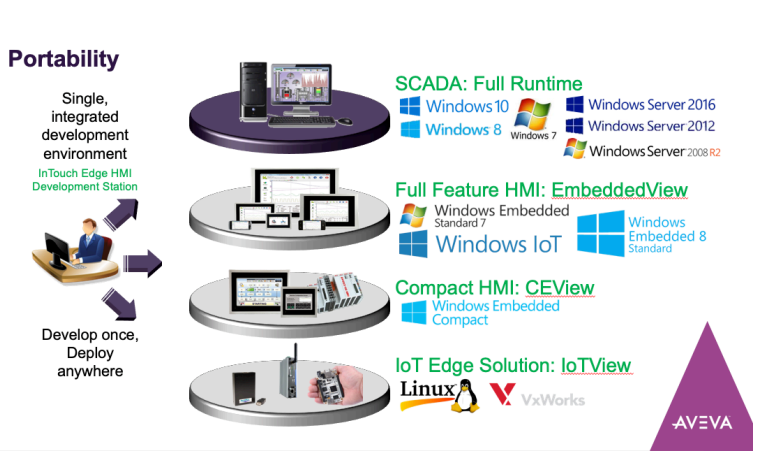
And yes, mobile required

Lets take a look

Industry 4.0

Driving Operational Results Through Digitization

Summary – Lower cost HMI | Mobile



InTouch Edge

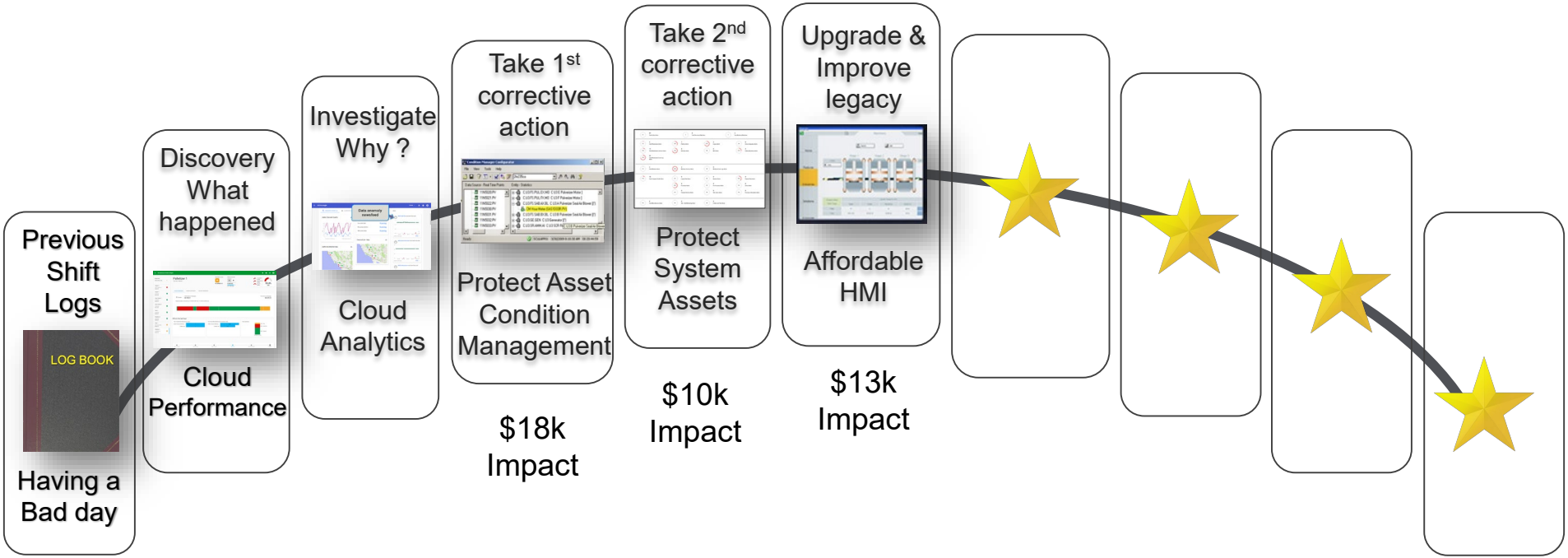
1. Lower cost but very rich functionality
2. Automatically convert PanelView & FactoryTalk™ applications
3. Connects to everything (PLC's, Historian, Platforms)

UNLIMITED Tags
UNLIMITED Thin Clients
DEV+RT
All features included
Simplex or Redundant

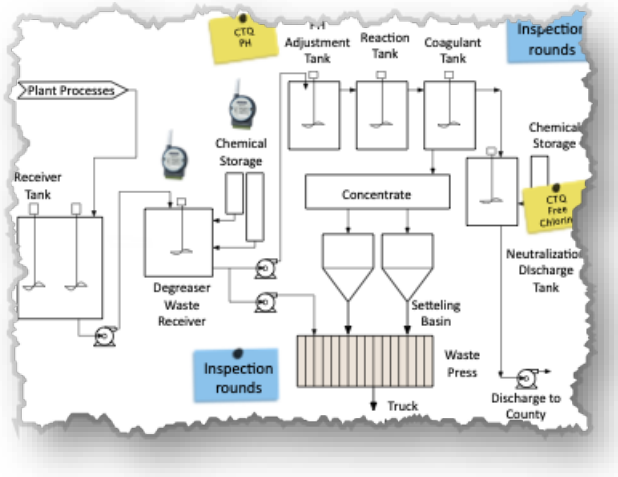
Native Mobile Apps for iOS (Apple Store) and Android (Google

Our journey today – the cadence of the shift

Steps toward being more Digitized



Digitize Rounds – workforce optimization



- Operations
- Maintenance
- Safety

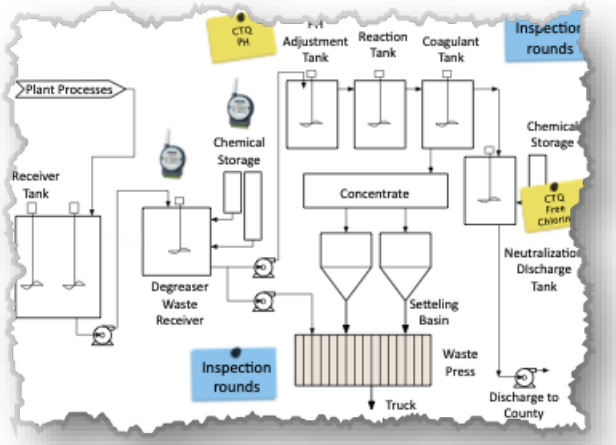
Receiver Pump

Write it down

Collect it

Enter into Excel

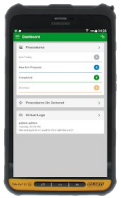
How we're addressing the issue



1. Digitize more of our people activities. Accurate, Complete, Searchable
2. Enforcement, Accountability, & Auditing built in.
3. Mobile through wireless and non-wireless areas.

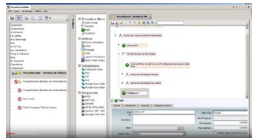
- **Operations**
- **Maintenance**
- **Safety**

No Clipboard

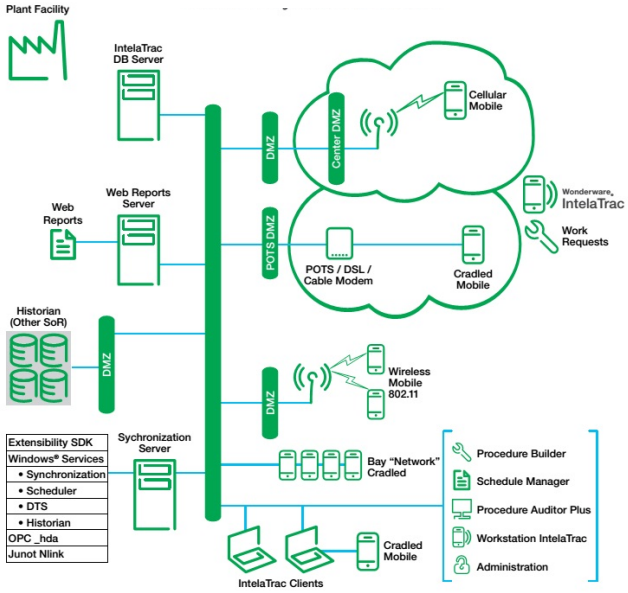


Digital storage

Analytics



Lets take a look



11:30A Clean up walk started.

11:42A Press Alarm, Low Thermal Oil. Adjusted setpoint

12 31 A Refill Resin hopper. Truck Late.

12 31 Started inspection Rounds @ WWTP. Leaking seal on Pump. Notified Maint.

12 45 Moisture Check on Flaker Oiled Up

12 48A. Low Air Flow on

1:00A Sander Trip. M

1:15A. Started Clean up

1:30 Core Flaker high

1:30 Core Dryer plug

2:10A Purge Core Dry

2:22A Core Cyclone Cl

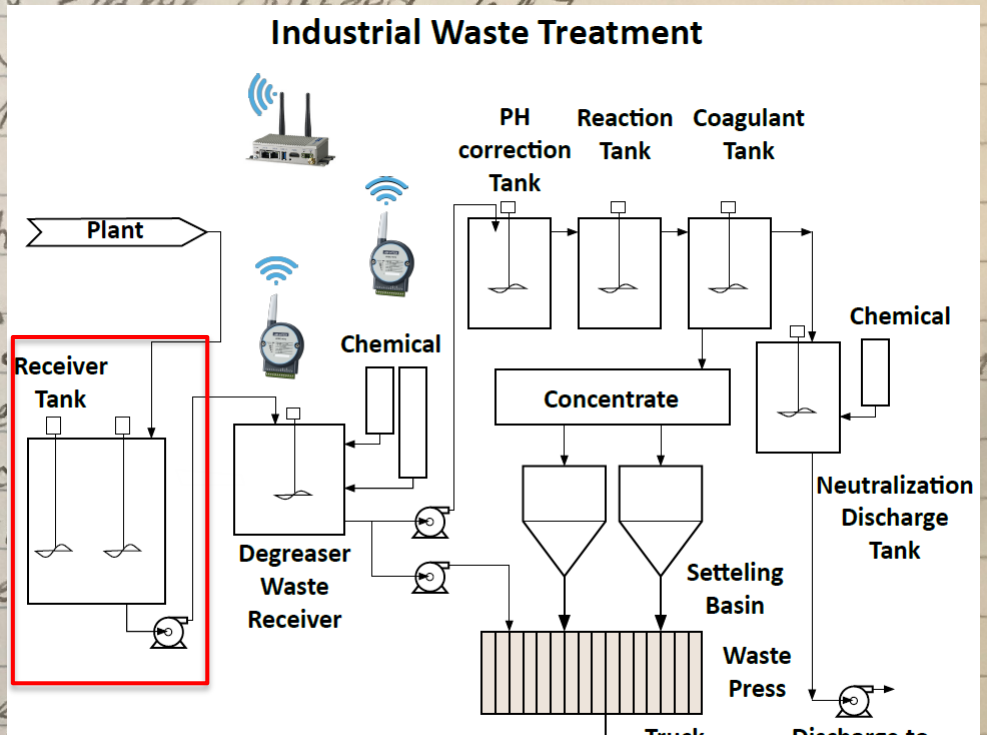
2:50A Core Dryer Bac

3:16A Lost environmen

3:20A Surface Debreker

3:28A Wellons Furnace

3:36A Flaker high Vib



InSource Manufacturing

Operator: _____ Date: _____

Time: _____

Receiver Pump:			
Vibration	Low	High	
Level:			
Noise Level:	Low	High	
Seal Leaks:	No leak	Small Leak	Large Leak

Receiver Tank:			
Tank Leak:	No Leak	Leaking	
Odor:	No odor	Has odor	

Signature:

Lets take a look

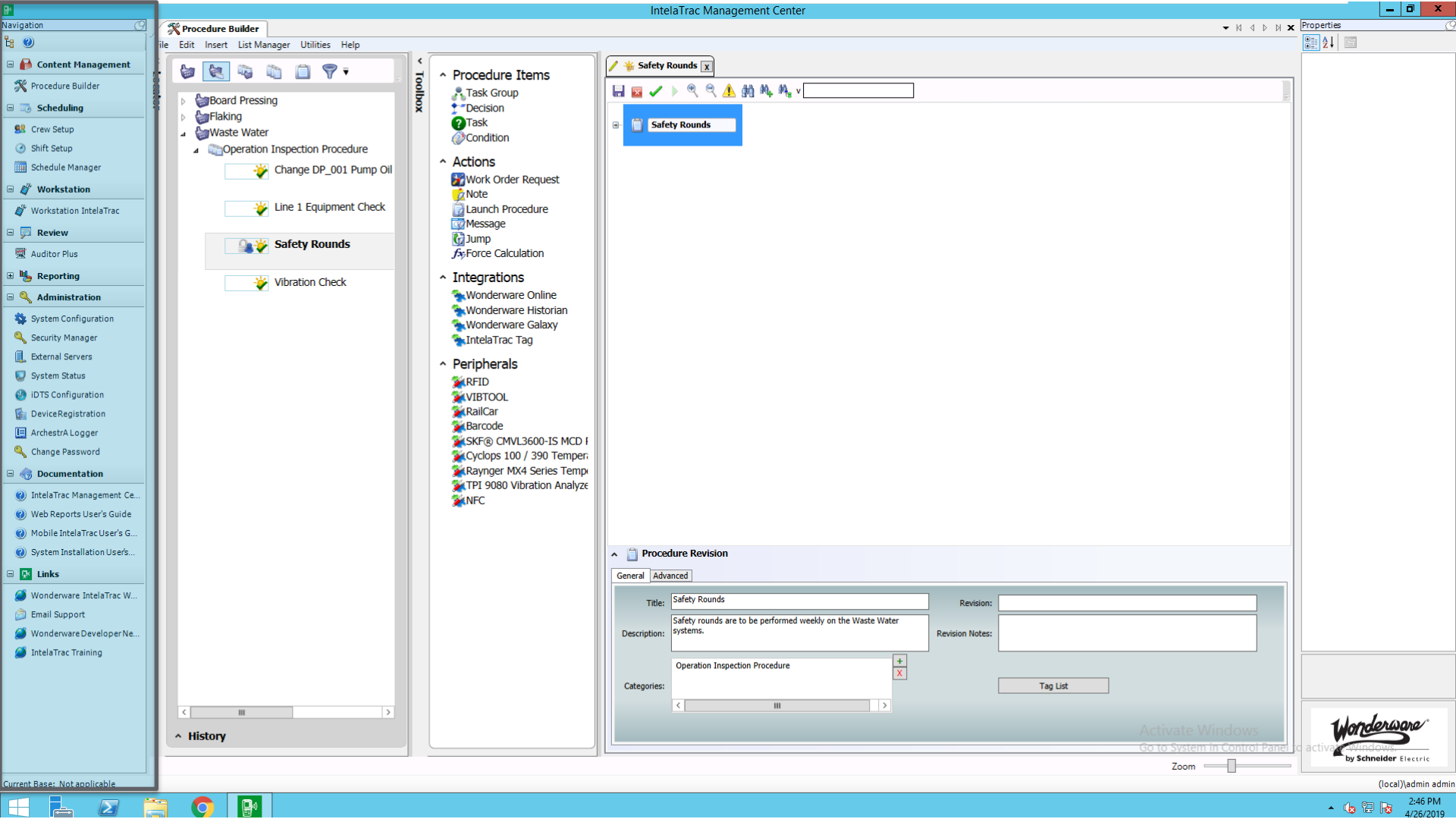
WISH LIST

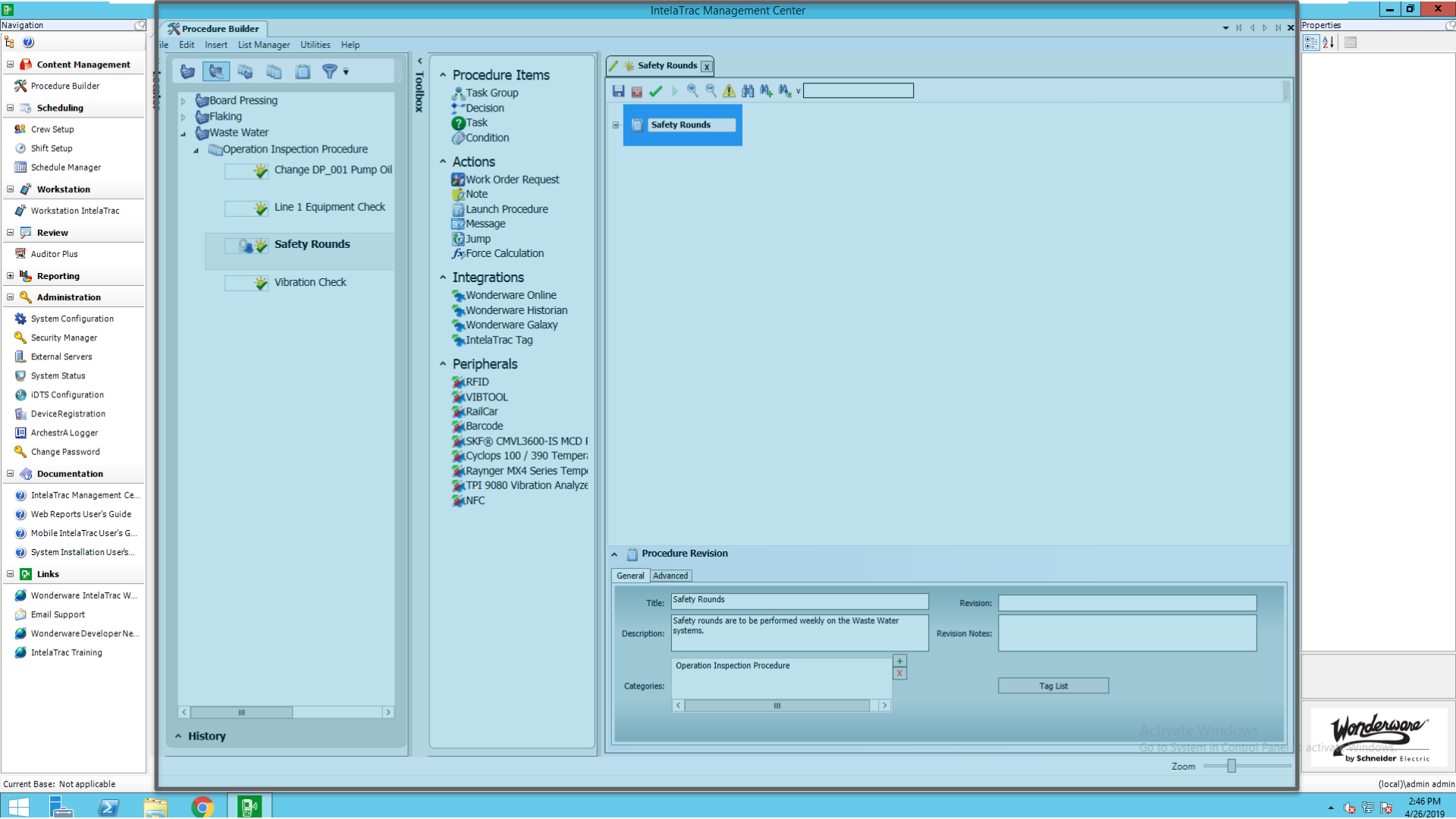
1

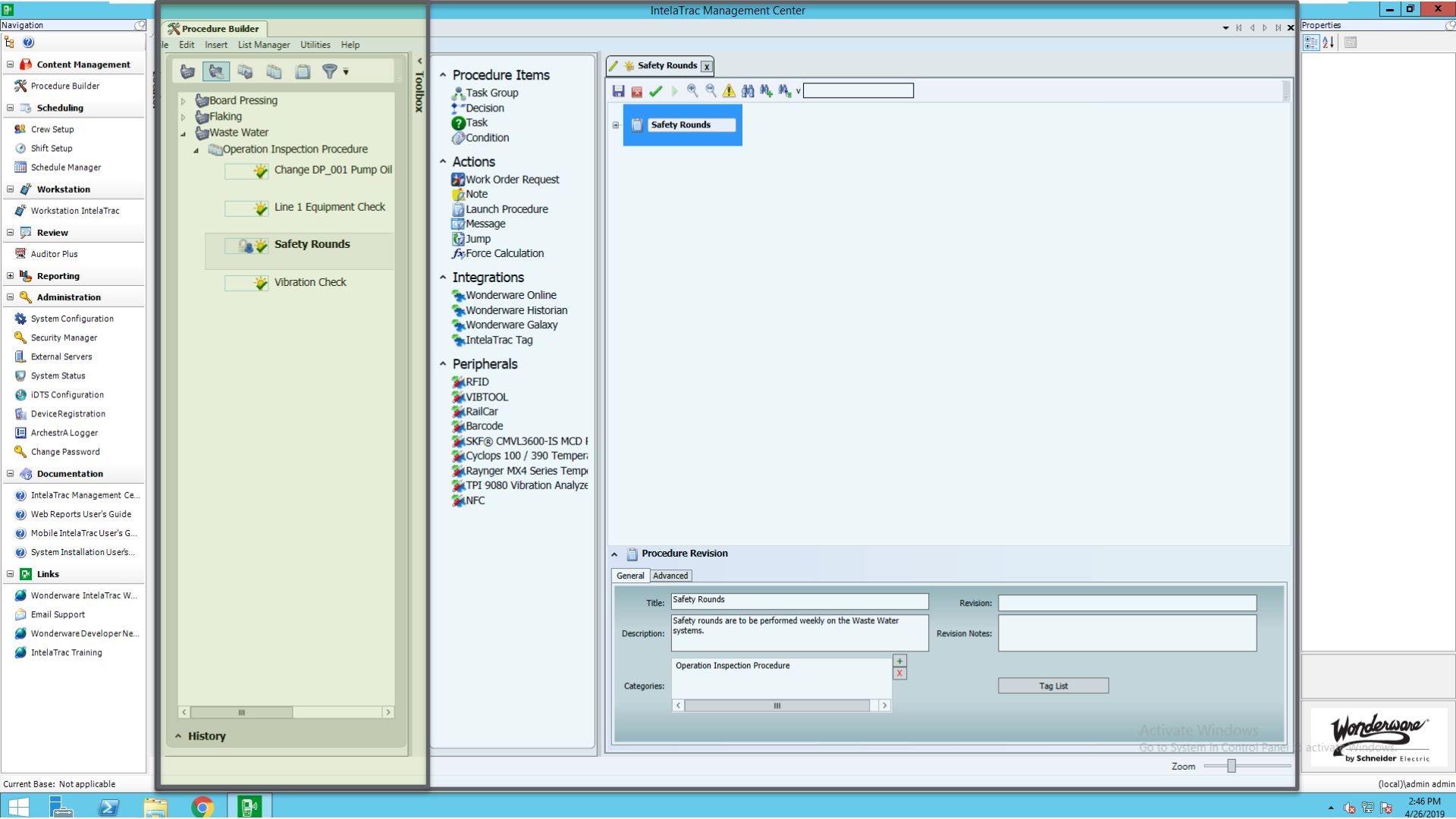
2

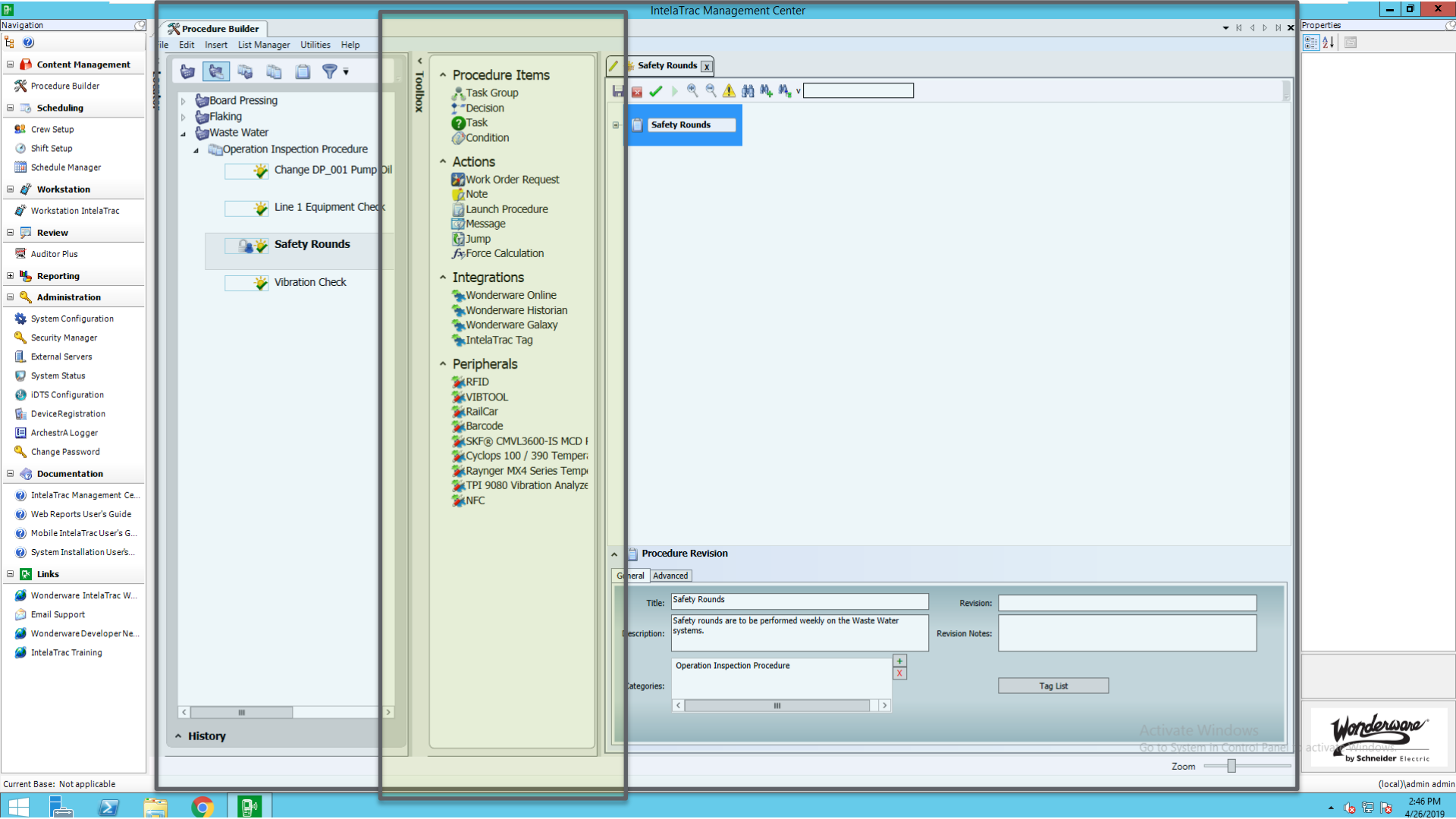
3

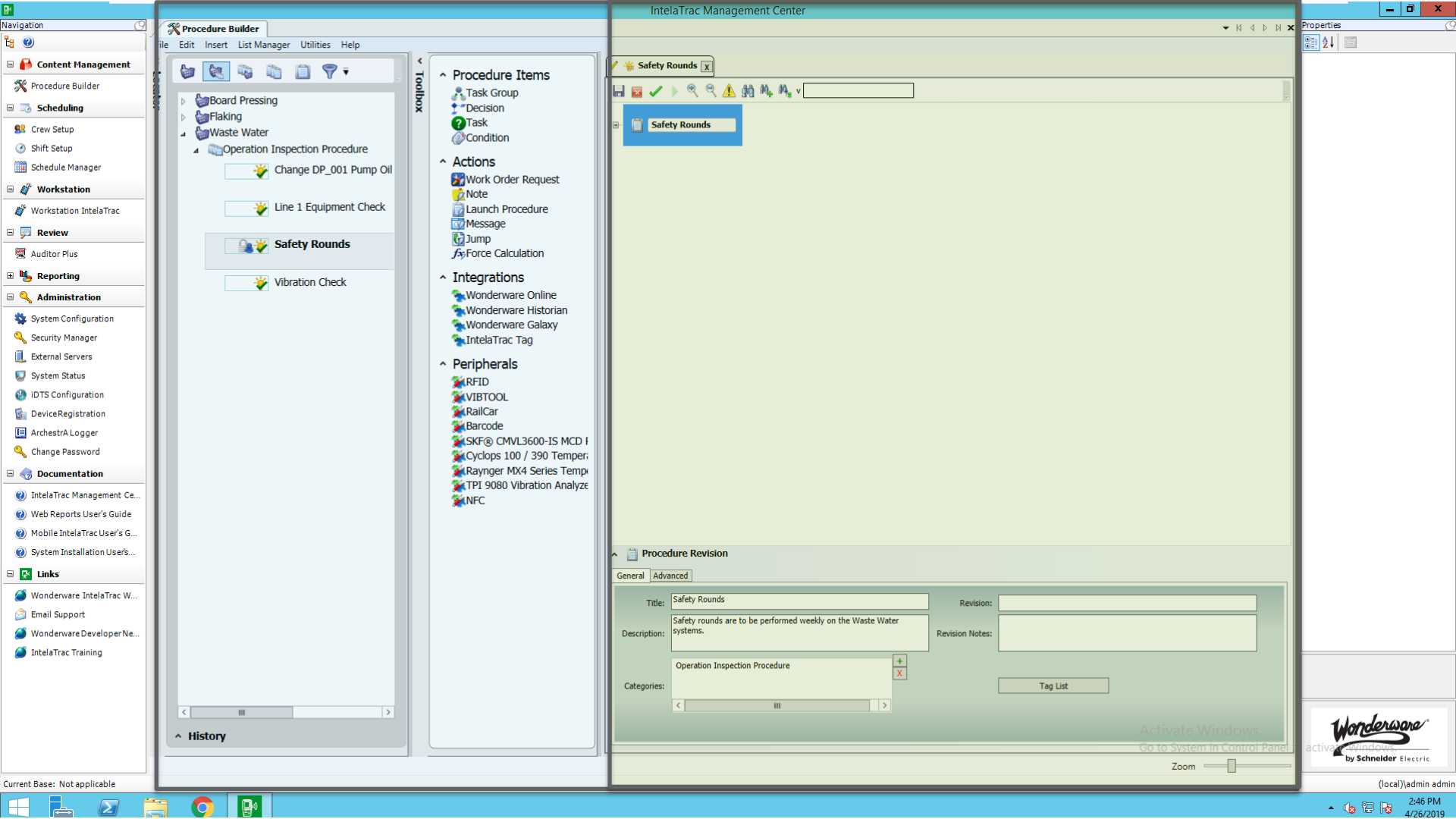
Replace paper inspection rounds

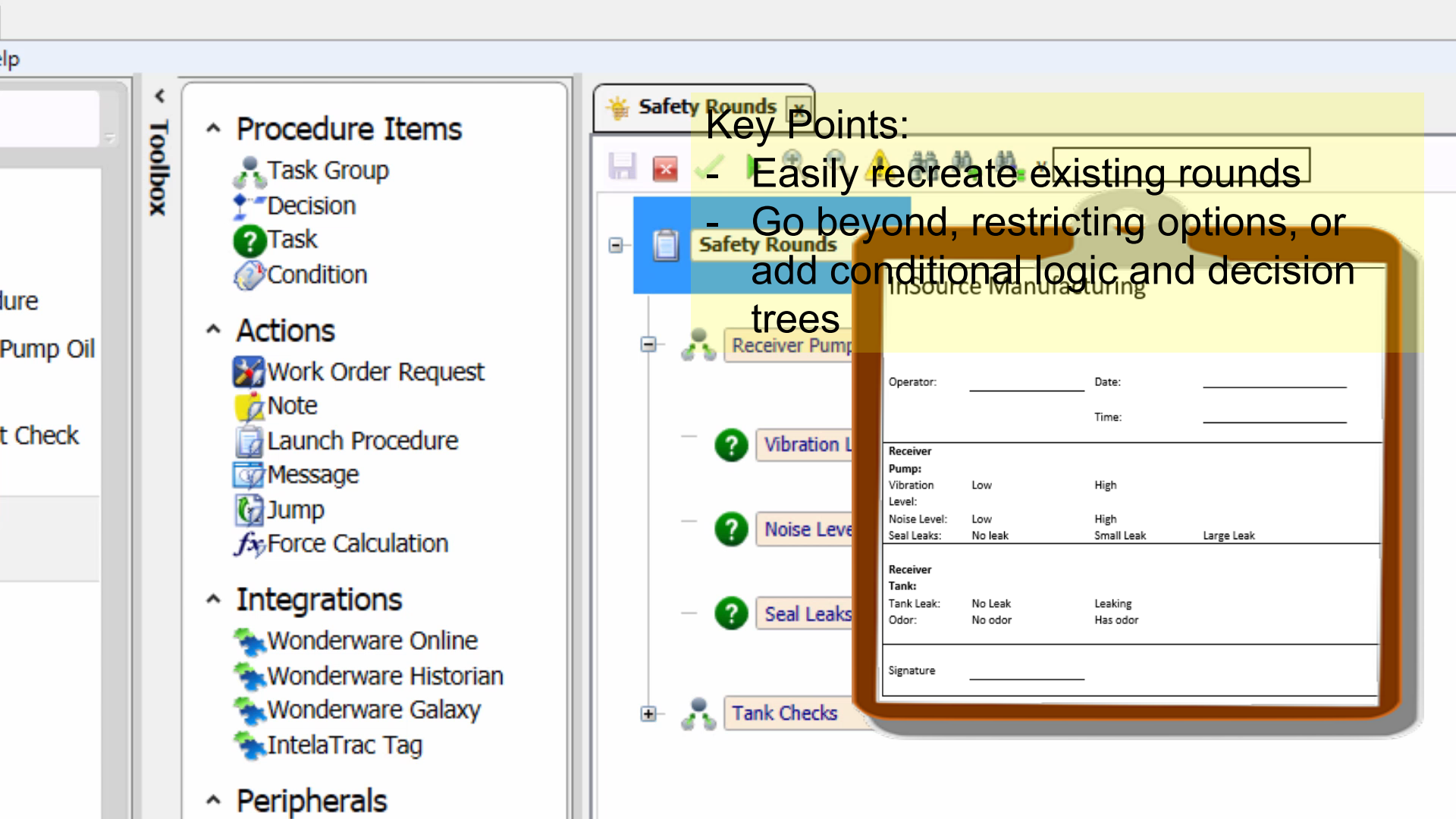

IntelaTrac Management Center
Navigation
Content Management
Procedure Builder
Scheduling
Crew Setup
Shift Setup
Schedule Manager
Workstation
Workstation IntelaTrac
Review
Auditor Plus
Reporting
Administration
System Configuration
Security Manager
External Servers
System Status
iDTS Configuration
DeviceRegistration
ArchestrA Logger
Change Password
Documentation
IntelaTrac Management Ce...
Web Reports User's Guide
Mobile IntelaTrac User's G...
System Installation User's...
Links
Wonderware IntelaTrac W...
Email Support
Wonderware Developer Ne...
IntelaTrac Training
Current Base: Not applicable
Procedure Builder
File Edit Insert List Manager Utilities Help
Toolbox
Board Pressing
Flaking
Waste Water
Operation Inspection Procedure
Change DP_001 Pump Oil
Line 1 Equipment Check
Safety Rounds
Vibration Check
History
Toolbox
Procedure Items
Task Group
Decision
Task
Condition
Actions
Work Order Request
Note
Launch Procedure
Message
Jump
Force Calculation
Integrations
Wonderware Online
Wonderware Historian
Wonderware Galaxy
IntelaTrac Tag
Peripherals
RFID
VIBTOOL
RailCar
Barcode
SKF® CMVL3600-IS MCD
Cyclops 100 / 390 Temper
Raynger MX4 Series Temp
TPI 9080 Vibration Analyze
NFC
Safety Rounds
Safety Rounds
Procedure Revision
General
Advanced
Title:
Safety Rounds
Description:
Safety rounds are to be performed weekly on the Waste Water systems.
Categories:
Operation Inspection Procedure
Revision:
Revision Notes:
Tag List
Properties
Zoom
Activate Windows
Go to System in Control Panel to activate Windows.
(local)\admin admin
2:46 PM
4/26/2019

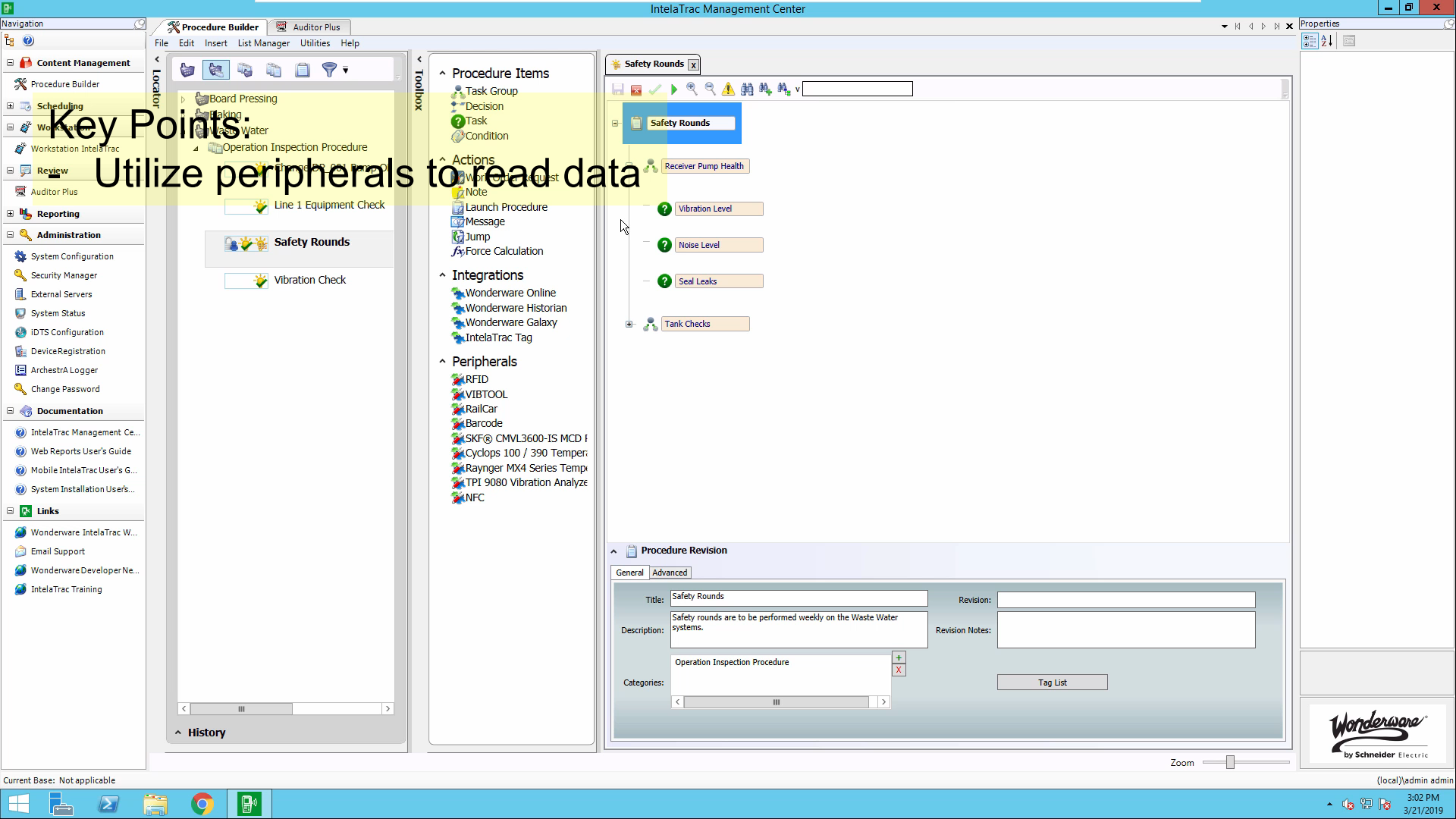

IntelaTrac Management Center
Navigation
Content Management
Procedure Builder
Scheduling
Crew Setup
Shift Setup
Schedule Manager
Workstation
Workstation IntelaTrac
Review
Auditor Plus
Reporting
Administration
System Configuration
Security Manager
External Servers
System Status
iDTS Configuration
DeviceRegistration
ArchestrA Logger
Change Password
Documentation
IntelaTrac Management Ce...
Web Reports User's Guide
Mobile IntelaTrac User's G...
System Installation User's...
Links
Wonderware IntelaTrac W...
Email Support
Wonderware Developer Ne...
IntelaTrac Training
Current Base: Not applicable
Procedure Builder
File Edit Insert List Manager Utilities Help
Board Pressing
Flaking
Waste Water
Operation Inspection Procedure
Change DP_001 Pump Oil
Line 1 Equipment Check
Safety Rounds
Vibration Check
History
Toolbox
Procedure Items
Task Group
Decision
Task
Condition
Actions
Work Order Request
Note
Launch Procedure
Message
Jump
Force Calculation
Integrations
Wonderware Online
Wonderware Historian
Wonderware Galaxy
IntelaTrac Tag
Peripherals
RFID
VIBTOOL
RailCar
Barcode
SKF® CMVL3600-IS MCD
Cyclops 100 / 390 Tempera
Raynger MX4 Series Tempe
TPI 9080 Vibration Analyze
NFC
Safety Rounds
Safety Rounds
Procedure Revision
General
Advanced
Title:
Safety Rounds
Revision:
Description:
Safety rounds are to be performed weekly on the Waste Water systems.
Revision Notes:
Categories:
Operation Inspection Procedure
Tag List
Zoom
Properties
Activate Windows
Go to System in Control Panel to activate Windows.
(local)\admin admin
2:46 PM
4/26/2019


Navigation
Content Management
Procedure Builder
Scheduling
Crew Setup
Shift Setup
Schedule Manager
Workstation
Workstation IntelaTrac
Review
Auditor Plus
Reporting
Administration
System Configuration
Security Manager
External Servers
System Status
iDTS Configuration
DeviceRegistration
ArchestrA Logger
Change Password
Documentation
IntelaTrac Management Ce...
Web Reports User's Guide
Mobile IntelaTrac User's G...
System Installation User's...
Links
Wonderware IntelaTrac W...
Email Support
Wonderware Developer Ne...
IntelaTrac Training
Current Base: Not applicable
Procedure Builder
File Edit Insert List Manager Utilities Help
Board Pressing
Flaking
Waste Water
Operation Inspection Procedure
Change DP_001 Pump Oil
Line 1 Equipment Check
Safety Rounds
Vibration Check
History
Toolbox
IntelaTrac Management Center
Procedure Items
Task Group
Decision
Task
Condition
Actions
Work Order Request
Note
Launch Procedure
Message
Jump
Force Calculation
Integrations
Wonderware Online
Wonderware Historian
Wonderware Galaxy
IntelaTrac Tag
Peripherals
RFID
VIBTOOL
RailCar
Barcode
SKF® CMVL3600-IS MCD
Cyclops 100 / 390 Temper
Raynger MX4 Series Temp
TPI 9080 Vibration Analyze
NFC
Safety Rounds
Safety Rounds
Procedure Revision
General
Advanced
Title:
Safety Rounds
Description:
Safety rounds are to be performed weekly on the Waste Water systems.
Categories:
Operation Inspection Procedure
Revision:
Revision Notes:
Tag List
Zoom
Properties
Wonderware by Schneider Electric
(local)\admin admin
2:46 PM
4/26/2019


IntelaTrac Management Center
Navigation
Content Management
Procedure Builder
Scheduling
Crew Setup
Shift Setup
Schedule Manager
Workstation
Workstation IntelaTrac
Review
Auditor Plus
Reporting
Administration
System Configuration
Security Manager
External Servers
System Status
iDTS Configuration
DeviceRegistration
ArchestrA Logger
Change Password
Documentation
IntelaTrac Management Ce...
Web Reports User's Guide
Mobile IntelaTrac User's G...
System Installation User's...
Links
Wonderware IntelaTrac W...
Email Support
Wonderware Developer Ne...
IntelaTrac Training
Current Base: Not applicable
Procedure Builder
File Edit Insert List Manager Utilities Help
Toolbox
Board Pressing
Flaking
Waste Water
Operation Inspection Procedure
Change DP_001 Pump Oil
Line 1 Equipment Check
Safety Rounds
Vibration Check
History
Toolbox
Procedure Items
Task Group
Decision
Task
Condition
Actions
Work Order Request
Note
Launch Procedure
Message
Jump
Force Calculation
Integrations
Wonderware Online
Wonderware Historian
Wonderware Galaxy
IntelaTrac Tag
Peripherals
RFID
VIBTOOL
RailCar
Barcode
SKF® CMVL3600-IS MCD
Cyclops 100 / 390 Temper
Raynger MX4 Series Temp
TPI 9080 Vibration Analyze
NFC
Safety Rounds
Safety Rounds
Procedure Revision
General
Advanced
Title:
Safety Rounds
Revision:
Description:
Safety rounds are to be performed weekly on the Waste Water systems.
Revision Notes:
Operation Inspection Procedure
Categories:
Tag List
Zoom
Properties
Activate Windows
Go to System in Control Panel to activate Windows.
Wonderware by Schneider Electric
(local)\admin admin
2:46 PM
4/26/2019

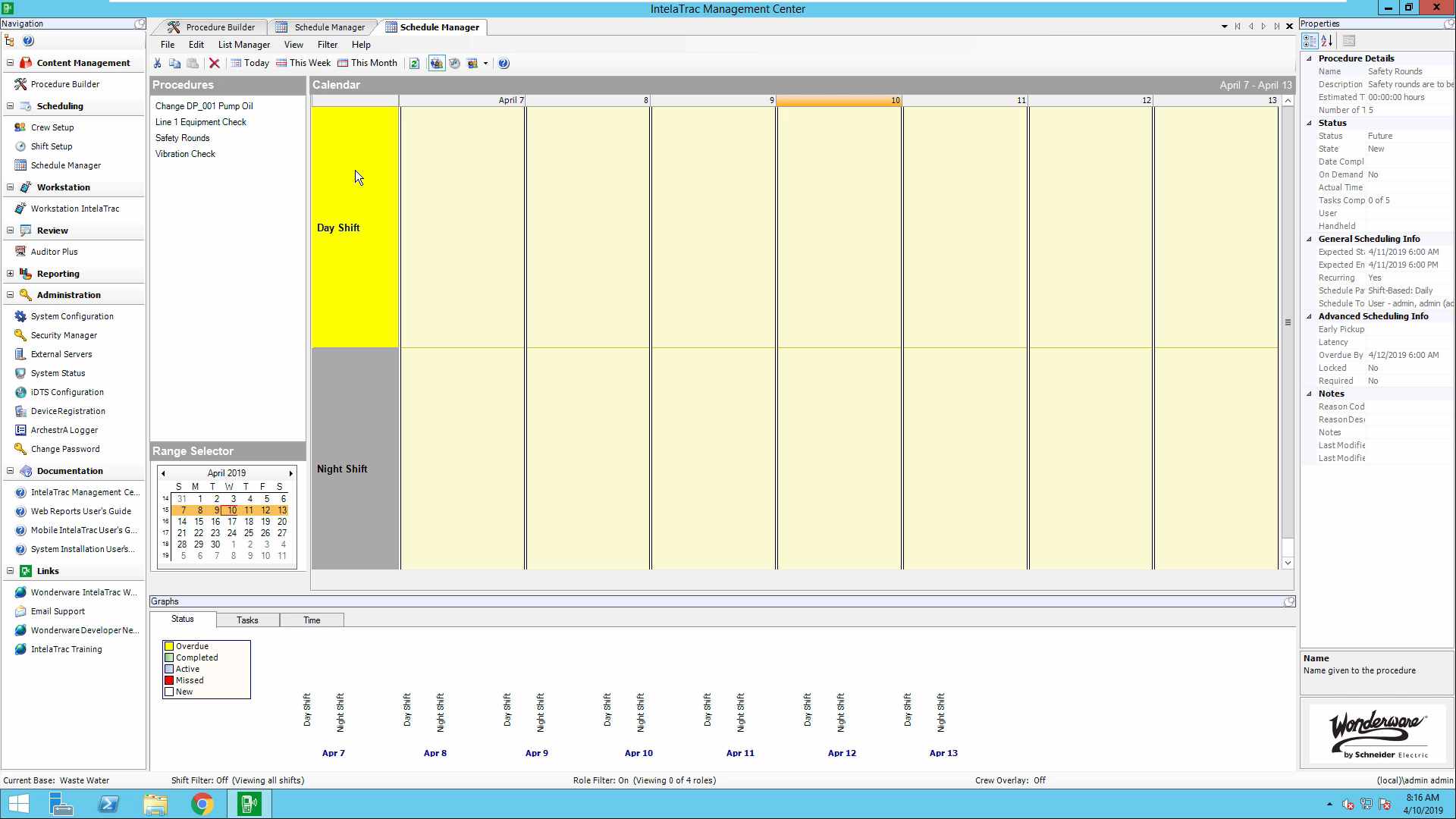

Navigation
Content Management
Procedure Builder
Scheduling
Crew Setup
Shift Setup
Schedule Manager
Workstation
Workstation IntelaTrac
Review
Auditor Plus
Reporting
Administration
System Configuration
Security Manager
External Servers
System Status
iDTS Configuration
DeviceRegistration
ArchestrA Logger
Change Password
Documentation
IntelaTrac Management Ce...
Web Reports User's Guide
Mobile IntelaTrac User's G...
System Installation User's...
Links
Wonderware IntelaTrac W...
Email Support
Wonderware Developer Ne...
IntelaTrac Training
Current Base: Not applicable
Procedure Builder
File Edit Insert List Manager Utilities Help
Toolbox
Board Pressing
Flaking
Waste Water
Operation Inspection Procedure
Change DP_001 Pump Oil
Line 1 Equipment Check
Safety Rounds
Vibration Check
History
Toolbox
Procedure Items
Task Group
Decision
Task
Condition
Actions
Work Order Request
Note
Launch Procedure
Message
Jump
Force Calculation
Integrations
Wonderware Online
Wonderware Historian
Wonderware Galaxy
IntelaTrac Tag
Peripherals
RFID
VIBTOOL
RailCar
Barcode
SKF® CMVL3600-IS MCD
Cyclops 100 / 390 Temper
Raynger MX4 Series Temp
TPI 9080 Vibration Analyze
NFC
IntelaTrac Management Center
Safety Rounds
Safety Rounds
Procedure Revision
General
Advanced
Title:
Safety Rounds
Description:
Safety rounds are to be performed weekly on the Waste Water systems.
Categories:
Operation Inspection Procedure
Revision:
Revision Notes:
Tag List
Zoom
Properties
Wonderware by Schneider Electric
(local)\admin admin
2:46 PM
4/26/2019


Toolbox
Procedure Items
Task Group
Decision
Task
Condition
Actions
Work Order Request
Note
Launch Procedure
Message
Jump
Force Calculation
Integrations
Wonderware Online
Wonderware Historian
Wonderware Galaxy
IntelaTrac Tag
Peripherals
Safety Rounds
Safety Rounds
InSource Manufacturing
Receiver Pump
Vibration L
Noise Leve
Seal Leaks
Tank Checks
Key Points:
- Easily recreate existing rounds
- Go beyond, restricting options, or add conditional logic and decision trees
Operator:
Date:
Time:
Receiver Pump:
Vibration Level:
Low
High
Noise Level:
Low
High
Seal Leaks:
No leak
Small Leak
Large Leak
Receiver Tank:
Tank Leak:
No Leak
Leaking
Odor:
No odor
Has odor
Signature



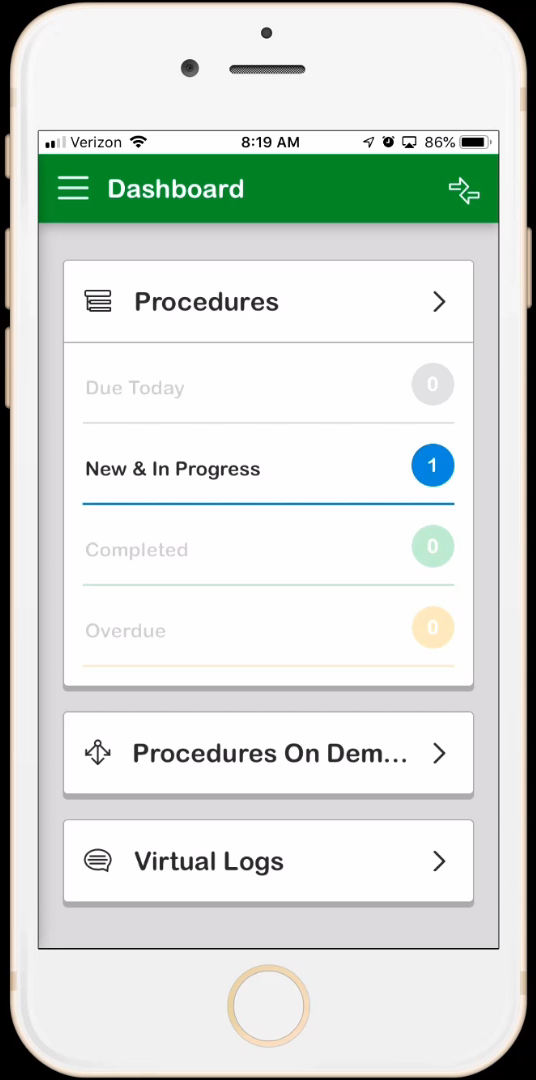
Key Points:

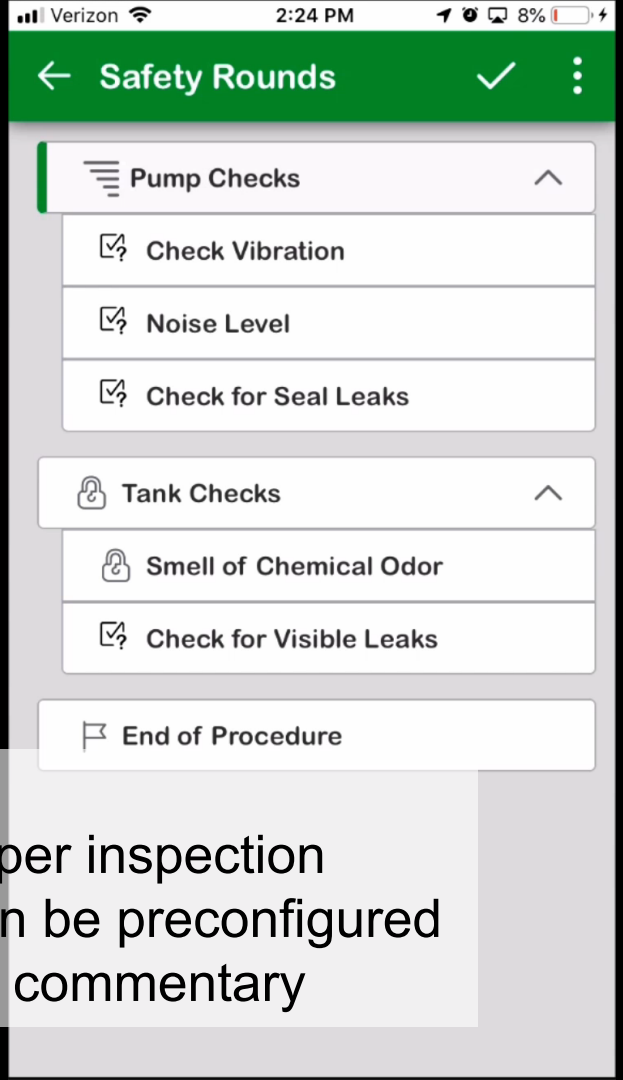
Utilize peripherals to read data


IntelaTrac Management Center
Navigation
Procedure Builder
Schedule Manager
Schedule Manager
File
Edit
List Manager
View
Filter
Help
Today
This Week
This Month
Content Management
Procedure Builder
Scheduling
Crew Setup
Shift Setup
Schedule Manager
Workstation
Workstation IntelaTrac
Review
Auditor Plus
Reporting
Administration
System Configuration
Security Manager
External Servers
System Status
iDTS Configuration
DeviceRegistration
ArchestrA Logger
Change Password
Documentation
IntelaTrac Management Ce...
Web Reports User's Guide
Mobile IntelaTrac User's G...
System Installation User's...
Links
Wonderware IntelaTrac W...
Email Support
Wonderware Developer Ne...
IntelaTrac Training
Procedures
Change DP_001 Pump Oil
Line 1 Equipment Check
Safety Rounds
Vibration Check
Range Selector
April 2019
Calendar
April 7 - April 13
April 7
8
9
10
11
12
13
Day Shift
Night Shift
Graphs
Status
Tasks
Time
Overdue
Completed
Active
Missed
New
Day Shift
Night Shift
Apr 7
Apr 8
Apr 9
Apr 10
Apr 11
Apr 12
Apr 13
Properties
Procedure Details
Name Safety Rounds
Description Safety rounds are to be
Estimated T 00:00:00 hours
Number of T 5
Status
Status Future
State New
Date Compl
On Demand No
Actual Time
Tasks Comp 0 of 5
User
Handheld
General Scheduling Info
Expected St 4/11/2019 6:00 AM
Expected En 4/11/2019 6:00 PM
Recurring Yes
Schedule Pa Shift-Based: Daily
Schedule To User - admin, admin (ac
Advanced Scheduling Info
Early Pickup
Latency
Overdue By 4/12/2019 6:00 AM
Locked No
Required No
Notes
Reason Cod
Reason Des
Notes
Last Modifie
Last Modifie
Name
Name given to the procedure
Wonderware by Schneider Electric
Current Base: Waste Water
Shift Filter: Off (Viewing all shifts)
Role Filter: On (Viewing 0 of 4 roles)
Crew Overlay: Off
(local)\admin admin
8:16 AM
4/10/2019

Key Points:

- Works on Tablets, or IOS/Android devices.
- Synchronize to download updates, and upload completed rounds.



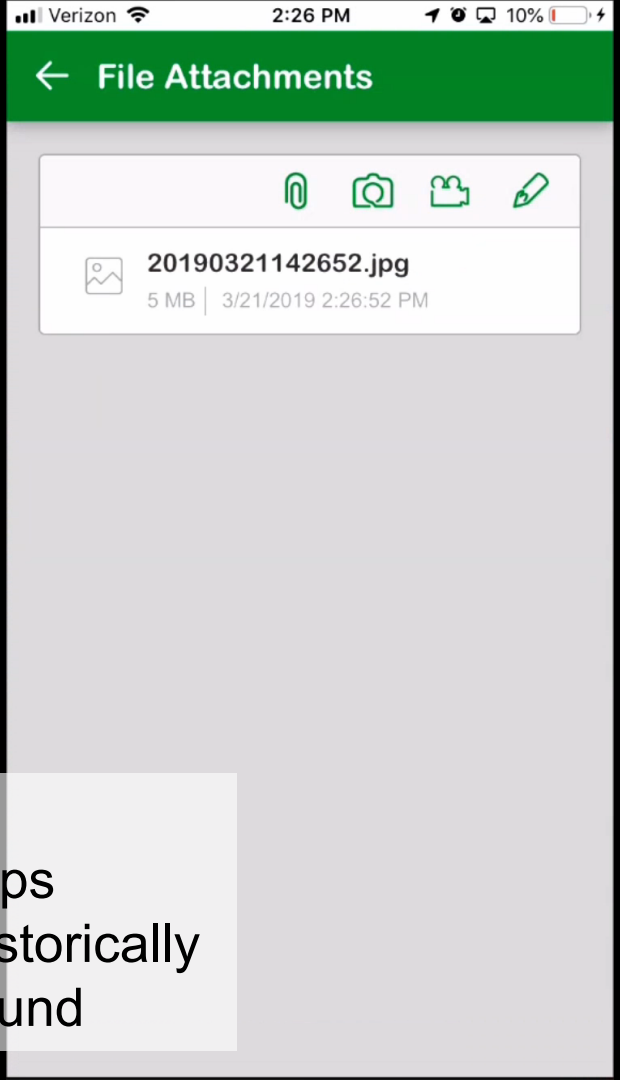


Key Points:

- Have recreated the paper inspection
- Allowed responses can be preconfigured
- Notes allow additional commentary

Key Points:

- Photos can also be attached.



Key Points:

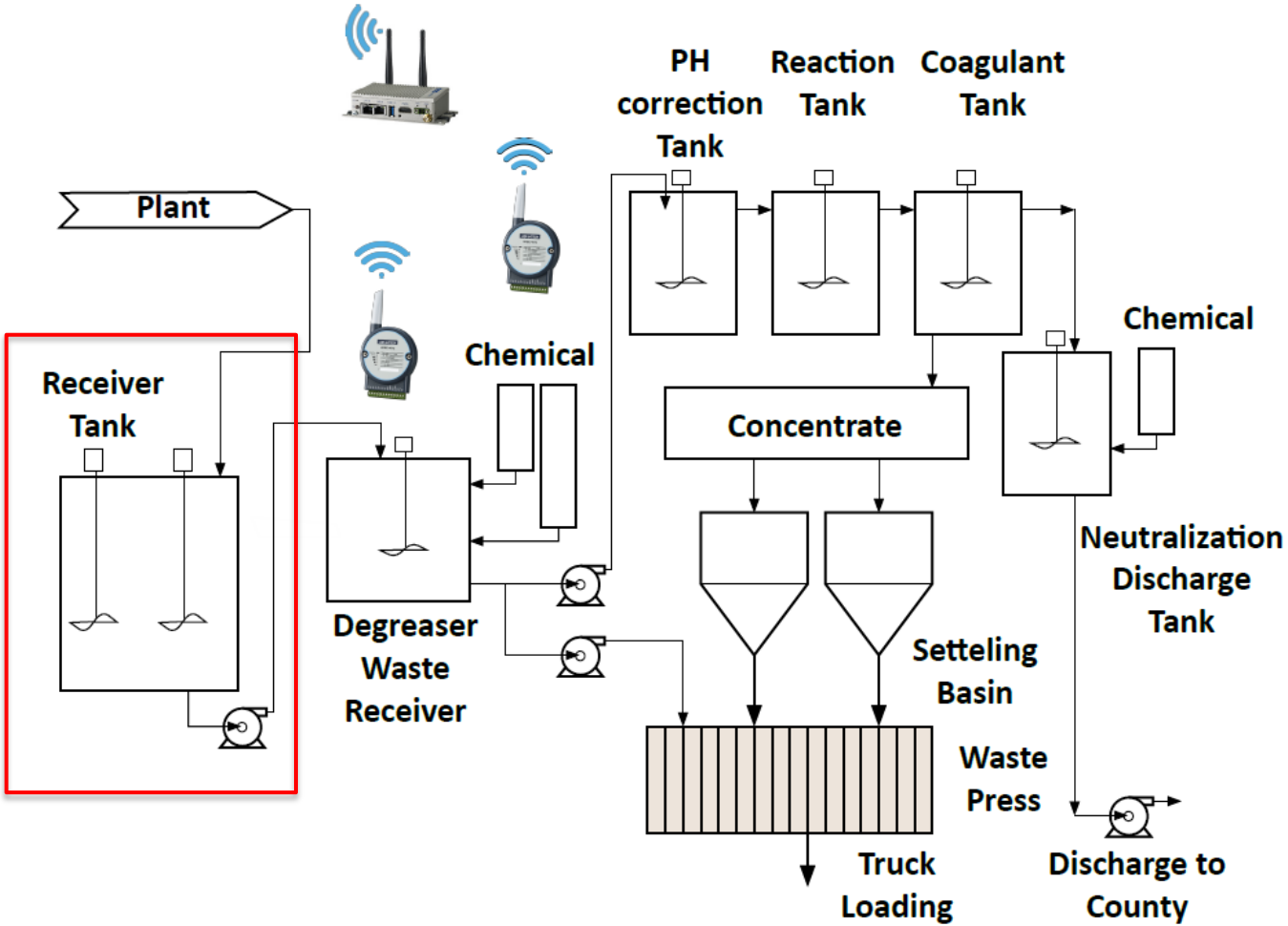
- Godzilla collects pumps
- Pictures are saved historically with the inspection round

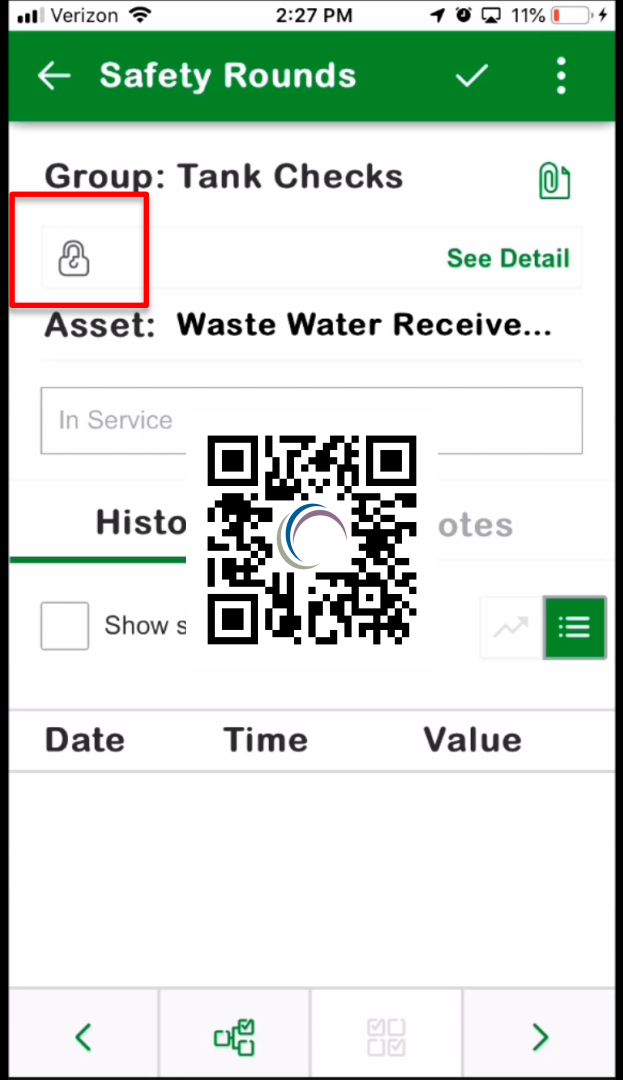
Lets take a look

WISH LIST

1. Replace paper inspection rounds
2. Ensure tests are done at correct equipment
3.

Industrial Waste Treatment

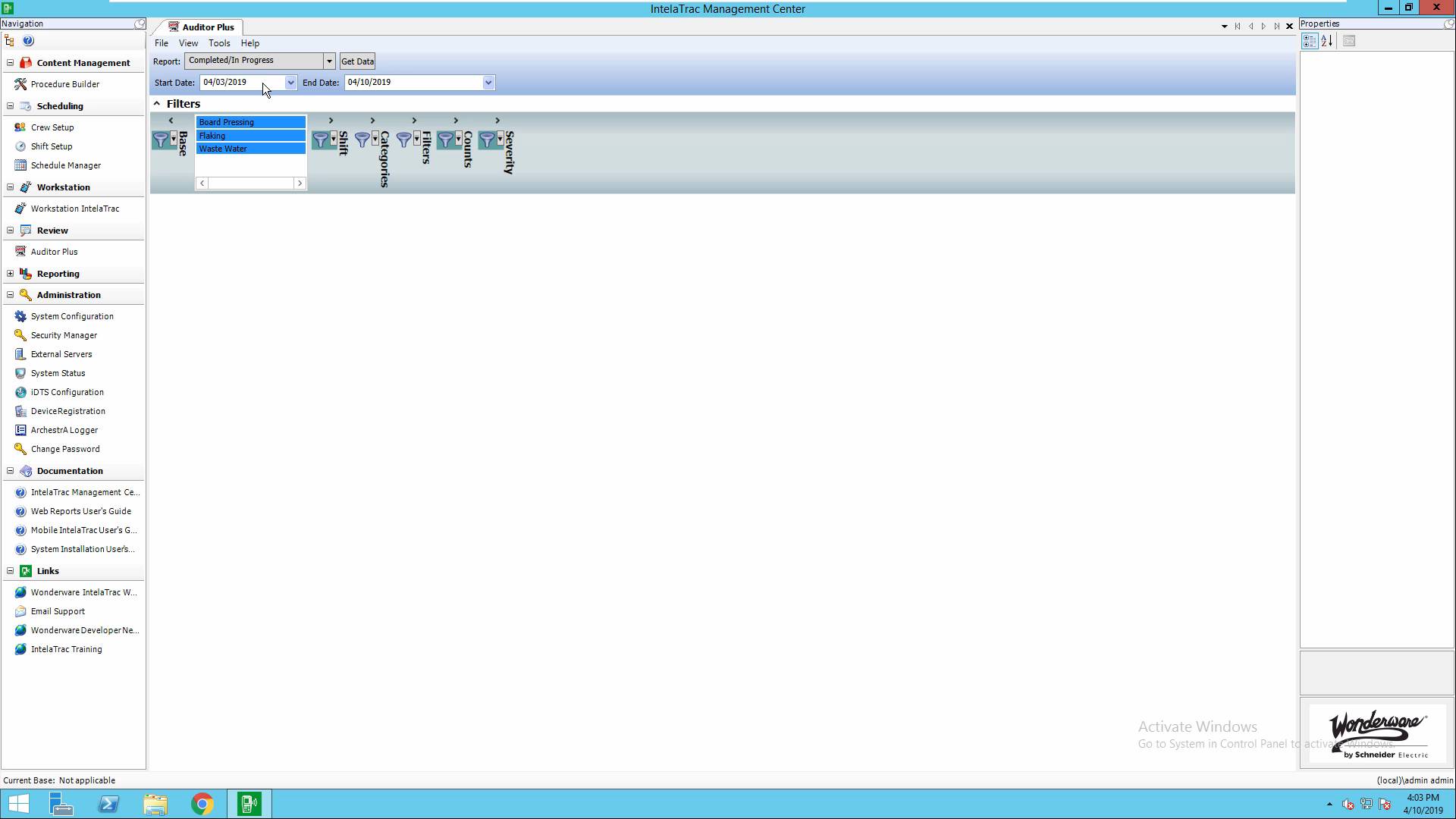


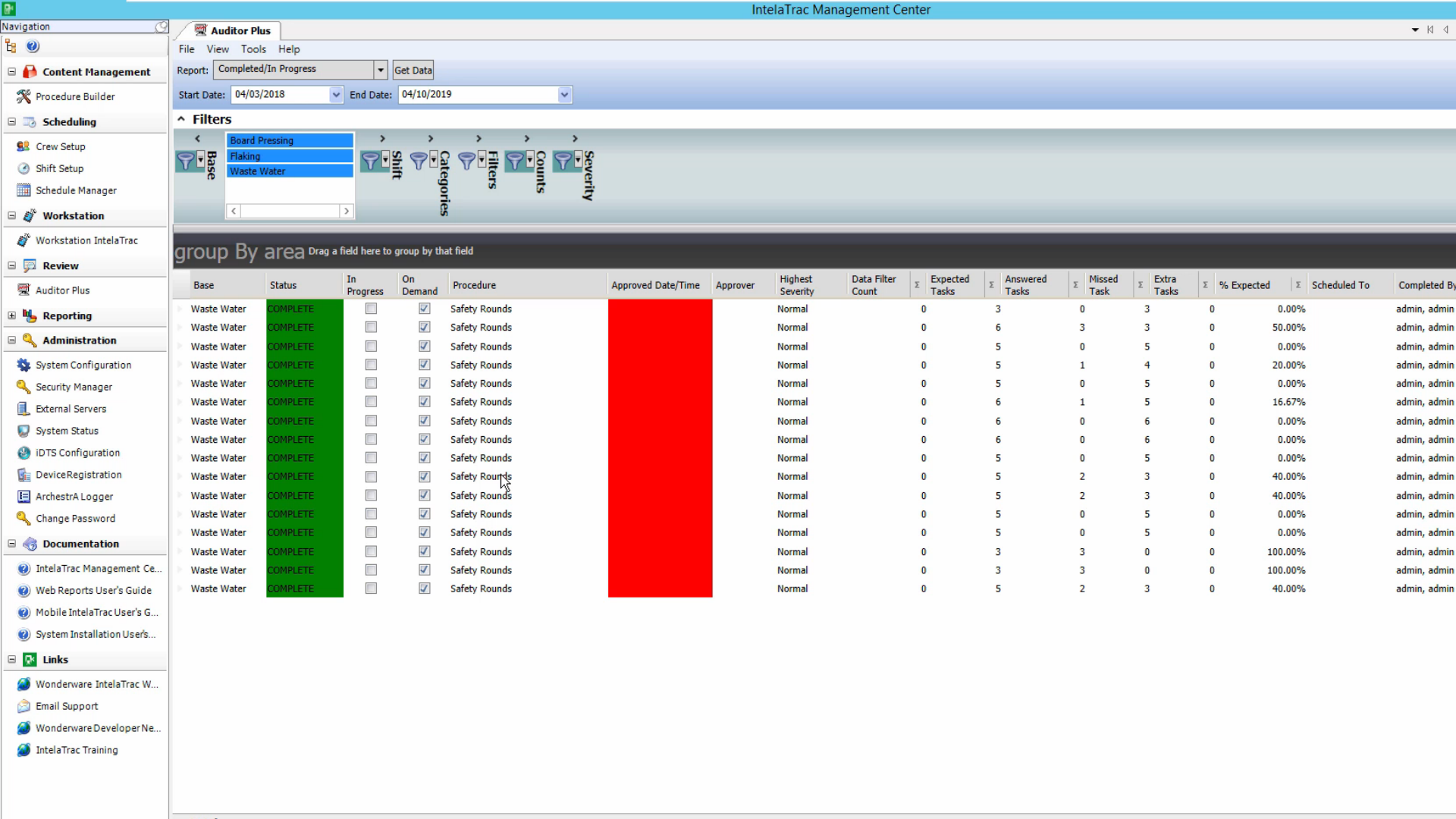

Verizon
2:27 PM
11%
Safety Rounds
Group: Tank Checks
See Detail
Asset: Waste Water Receive...
In Service
Histo
otes
Show s
Date
Time
Value

Lets take a look

WISH LIST

1. Replace paper inspection rounds
2. Ensure tests are done at correct equipment
3. Allow auditing of the results


IntelaTrac Management Center
Navigation
Content Management
Procedure Builder
Scheduling
Crew Setup
Shift Setup
Schedule Manager
Workstation
Workstation IntelaTrac
Review
Auditor Plus
Reporting
Administration
System Configuration
Security Manager
External Servers
System Status
iDTS Configuration
DeviceRegistration
ArchestrA Logger
Change Password
Documentation
IntelaTrac Management Ce...
Web Reports User's Guide
Mobile IntelaTrac User's G...
System Installation User's...
Links
Wonderware IntelaTrac W...
Email Support
Wonderware Developer Ne...
IntelaTrac Training
Auditor Plus
File
View
Tools
Help
Report:
Completed/In Progress
Get Data
Start Date:
04/03/2019
End Date:
04/10/2019
Filters
Base
Board Pressing
Flaking
Waste Water
Shift
Categories
Filters
Counts
Severity
Properties
Activate Windows
Go to System in Control Panel to activate Windows.
Wonderware
by Schneider Electric
Current Base: Not applicable
(local)\admin admin
4:03 PM
4/10/2019

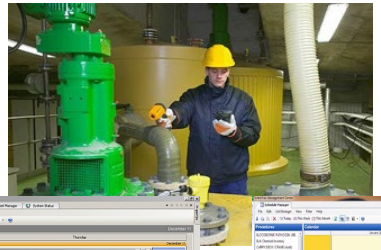
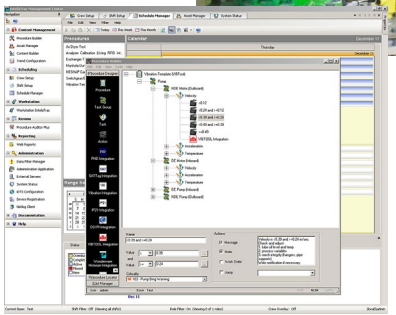
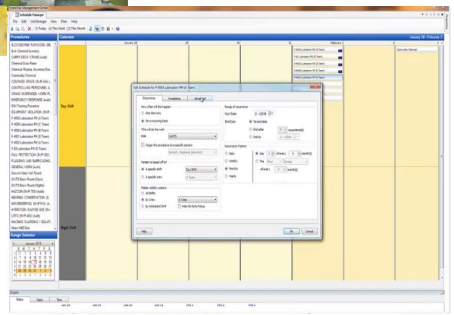
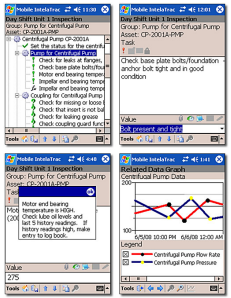
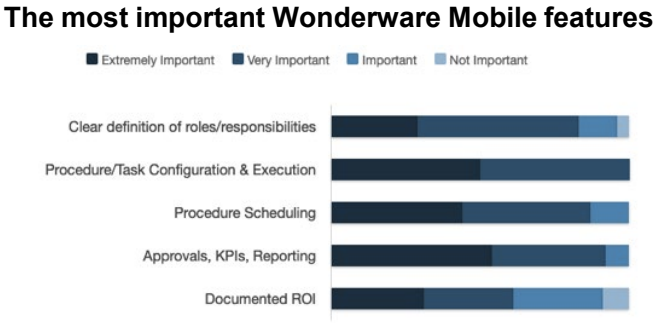

IntelaTrac Management Center
Navigation
Auditor Plus
File View Tools Help
Report: Completed/In Progress
Get Data
Start Date: 04/03/2018
End Date: 04/10/2019
Filters
Board Pressing
Flaking
Waste Water
Base
Shift
Categories
Filters
Counts
Severity
group By area
Drag a field here to group by that field
Base Status In Progress On Demand Procedure Approved Date/Time Approver Highest Severity Data Filter Count Expected Tasks Answered Tasks Missed Task Extra Tasks % Expected Scheduled To Completed By
Waste Water COMPLETE Safety Rounds Normal 0 3 0 3 0 0.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 6 3 3 0 50.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 5 0 5 0 0.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 5 1 4 0 20.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 5 0 5 0 0.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 6 1 5 0 16.67% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 6 0 6 0 0.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 6 0 6 0 0.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 5 0 5 0 0.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 5 2 3 0 40.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 5 2 3 0 40.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 5 0 5 0 0.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 5 0 5 0 0.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 3 3 0 0 100.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 3 3 0 0 100.00% admin, admin
Waste Water COMPLETE Safety Rounds Normal 0 5 2 3 0 40.00% admin, admin
Content Management
Procedure Builder
Scheduling
Crew Setup
Shift Setup
Schedule Manager
Workstation
Workstation IntelaTrac
Review
Auditor Plus
Reporting
Administration
System Configuration
Security Manager
External Servers
System Status
iDTS Configuration
DeviceRegistration
ArchestrA Logger
Change Password
Documentation
IntelaTrac Management Ce...
Web Reports User's Guide
Mobile IntelaTrac User's G...
System Installation User's...
Links
Wonderware IntelaTrac W...
Email Support
Wonderware Developer Ne...
IntelaTrac Training

Lets take a look

WISH LIST

1. Replace paper inspection rounds
2. Ensure tests are done at correct equipment
3. Allow auditing of the results

Summary – Digitization by Optimizing workforce activities

Wonderware Mobile

1. Digitizes rounds:
   Operators | Maintenance | Safety | others
2. Provides Enforcement, Accountability, & Auditing capabilities
3. Data is Secure, Accurate, Searchable, Reportable