

OEE Studio Release Note

Version 3.5

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What's New in 3.5

- **Favorites Screen**
- This now has a Hierarchy column which will allow the users to filter by hierarchy (by selecting the filter icon in the column). Additionally any changes made to the layout on this screen will automatically get saved to the users profile, and applied whenever they return to the screen. There is also a "Revert to default" button at the top of the screen in case they need to reset the layout.

- **Enhancements**
- Pivot Grid drill down data on cell with double click. The pivot grid displays the highlighted field in red when the drill down is applied.
- Availability - Graphical Analysis - Bar Color for Reason 'None' = Pink.
- Added Hierarchy Grouping to the All Shift Production Report.
- Added OEE Trend chart to All Shift Production Report.
- Ability to choose the production states included in Top Losses for Shift OEE Reports, Shift Production Report, Line OEE Report.
- New Report – Shift OEE Report with Comments. Displays shift interval and production interval comments that were entered via OEE Alert.
- Added Line Production Time fields to the Availability – Tabular Analysis Pivot and Data Grids.
- Top value filtering for Pivot Grid Controls.
- Added Raw Excel format option when exporting data grids and pivot grids to Excel

- **Updated Website** – More online help - check it out!! www.oestudio.com/toolbox.html

Favorites Screen

Enter text to search [Find] [Clear] [Remove Filters and Revert to Default Layout]

Hierarchy [v] Group Name [v]

<< Move the column headings around to get a different view.

Hierarchy	Group Name	Screen	Title	Availability	Date Range
Hierarchy: Enterprise VetiGROUP MFG					
+ Group Name:					
Hierarchy: Location Lebanon, CT					
+ Group Name:					
Group Name: Cork Boards					
- Group Name: Daily					
Location Lebanon, CT	Daily	All Shift Production Summary Report	All Shift Production Summary Report	All Users	Current Day
Lebanon, CT Print current report for first shift					
Location Lebanon, CT	Daily	Availability - Graphical	Availability - Graphical	All Users	Current Week
Lebanon, CT First Shift, 1004_VFL3					
Location Lebanon, CT	Daily	Availability - Graphical	Availability - Graphical	All Users	Current Week
Lebanon, CT Good Crew Meeting Report					
Location Lebanon, CT	Daily	Availability - Graphical	Downtime Reasons in Decending Order	All Users	Current Week
Use for DT Reports					
Location Lebanon, CT	Daily	Loss Events - Parts	Loss Events - Parts - Palletizer cost report	All Users	Current Week
Lebanon, CT instructions					
Group Name: First Shift Team Leads					
Location Lebanon, CT	First Shift Team ...	Availability - Graphical	Downtime Graph Per Line	All Users	Current Week
Post these at lines daily					
Group Name: Monthly					
Location Lebanon, CT	Monthly	Availability - Graphical	Availability - Graphical	All Users	Current Week
Lebanon, CT					
Location Lebanon, CT	Monthly	Availability - Tabular	Availability - Grid Analysis	All Users	Current Week
Lebanon, CT					
Location Lebanon, CT	Monthly	Loss Events - Parts	Cost of Bagger report	All Users	Current Week
Lebanon, CT					
+ Hierarchy: Plant 1004					
+ Hierarchy: Plant 1010					
+ Hierarchy: Region Midwest					

[Modify Favorites]

Identification

Title: All Shift Production Summary Report

Description: Lebanon, CT
Print current report for first shift

Group Name: Daily

Date Range

Range: 1 [v] [Day(s)] [Week(s)]

Available To: [All Users] [Just Me]

[OK] [Cancel]

[Hierarchy] = Lebanon, CT [Edit Filter]

Includes a Hierarchy column so that you can save a report by Plant Location, Machine Type, Machine Area, etc. Select the Hierarchy column heading to select the filter. The layout is automatically saved by user so that you can manage your Favorites!

You can also assign reports to Groups, such as Daily, Monthly, Supervisor, etc.

Favorites Screen

Hide Main Menu

Enter text to search... Find Clear Remove Filters and Revert to Default Layout

Hierarchy 0 Group Name 0

Favorites

Hierarchy	Title	Availability	Date Range	
Hierarchy: Enterprise VetiiGROUP MFG				
+ Group Name:				
Hierarchy: Location Lebanon, CT				
+ Group Name:				
+ Group Name: Cork Boards				
Group Name: Daily				
Location Lebanon, CT Lebanon, CT Print current report for first shift	All Shift Production Summary Report	All Users	Current Day	Show Edit X
Location Lebanon, CT Lebanon, CT First Shift, 1004_VFL3	Availability - Graphical	All Users	Current Week	Show Edit X
Location Lebanon, CT Lebanon, CT Good Crew Meeting Report	Availability - Graphical	All Users	Current Week	Show Edit X
Location Lebanon, CT Use for DT Reports	Availability - Graphical	All Users	Current Week	Show Edit X
Location Lebanon, CT Lebanon, CT instructions	Loss Events - Parts	All Users	Current Week	Show Edit X
Group Name: First Shift Team Leads				
Location Lebanon, CT Post these at lines daily	Downtime Graph Per Line	All Users	Current Week	Show Edit X
Group Name: Monthly				

Click on the Show button to launch your favorite report.

Click on the Edit button to modify the settings.

Click on the X button to remove the report.

Pivot Grid Drill-Down

Any of the Pivot Grid screens allows you to **double-click** on a data cell to display the details associated with that cell.

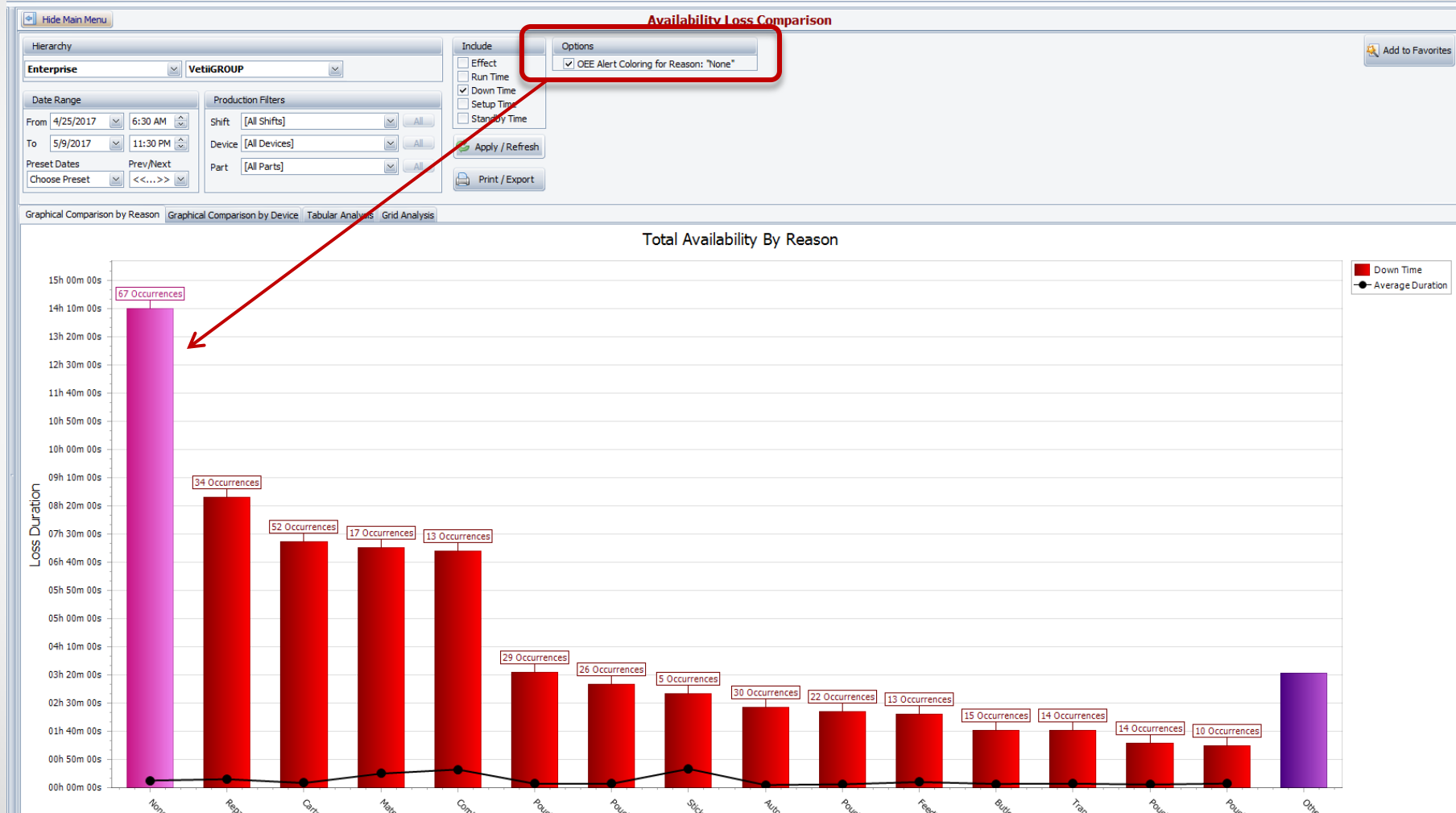
Additionally, the cell will be highlighted in Red to indicate which cell you are referencing.

The screenshot illustrates the drill-down functionality in a Pivot Grid. The top part shows a summary table with columns for device name, status, duration, and count. The 'MAINT' row is highlighted in red, and a red box is drawn around the '00h 56m 27s' duration cell. Below this, a 'Cell Data' window is open, displaying a detailed table of events for the selected cell. The 'Cell Data' window has a title bar and a header row: 'Device', 'Start Time', 'End Time', 'Duration', 'Loss Reason', 'Comment', 'State', 'Reason Count', and 'User Name'. The data rows show two instances of 'Bartelt5' with 'MAINT' status, occurring on 5/4/2017 at 3:11 PM and 3:53 PM, with durations of 00h 25m 46s and 00h 30m 41s respectively. The 'Reason Count' column shows a value of 1 for each row, and a summary row at the bottom shows a total of 2.

Device	Start Time	End Time	Duration	Loss Reason	Comment	State	Reason Count	User Name
Bartelt5	5/4/2017 3:11 PM	5/4/2017 3:37 PM	00h 25m 46s	MAINT	Stack testing. Machine was still running. D.S	Standby	1	
Bartelt5	5/4/2017 3:53 PM	5/4/2017 4:23 PM	00h 30m 41s	MAINT	Stack Testing. Machine was still running. D.S	Standby	1	
							2	

Highlight Un-Categorized Downtime

Similar to the OEE Alert Production State screen where events that are 'None' are displayed in the color pink. We have brought the same indication to OEE Studio – **Availability** – **Graphical Comparison**.



Reports – All Shift Production - More Options

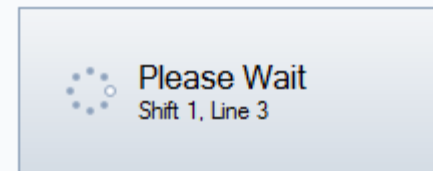
The screenshot shows a web-based configuration interface for generating reports. It is divided into several sections:

- Hierarchy:** Enterprise (dropdown), VetiiGROUP (dropdown)
- Date Range:** From 4/25/2017 6:30 AM to 5/9/2017 11:30 PM. Includes Preset Dates and Prev/Next options.
- Production Filters:** Device [All Devices] (dropdown), Part [All Parts] (dropdown). Both have 'All' buttons.
- Downtime calculation:** Include Standby in Downtime, Include Setup in Downtime.
- Show in Top Losses:** Down, Setup, Standby.
- Available Items:** First Shift, Manual Reset, Second Shift, Shift Undefined.
- Report By:** Shift only, Shift then Device, Device then Shift, Device only, Hierarchy.
- Include Charts:** State Summary, OEE Trend.
- Print / Preview:** A button with a printer icon.

Handwritten annotations in red:

- An arrow points to the 'Available Items' section with the text: "Select shift(s) for the report or leave unchecked for all shifts listed."
- An arrow points to the 'Show in Top Losses' section with the text: "Select specific event types or a combination - defaults to all."
- An arrow points to the 'Include Charts' section with the text: "Optionally display State Summary and OEE Trend for date range selected."
- An arrow points to the 'Report By' section with the text: "Summarize by Enterprise hierarchy."

After you click on the Print/Preview button, the Please Wait display will show you which lines and shifts are being processed.



Reports – All Shift Production - Hierarchy

Hierarchy
Location: Lebanon, CT

Date Range
From: 5/3/2016 5:00 AM
To: 5/17/2016 2:00 AM
Preset Dates: Choose Preset
Prev/Next: <<...>>

Production Filters
Device: [All Devices] All
Part: [All Parts] All

Downtime calculation
 Include Standby in Downtime
 Include Setup in Downtime

Show in Top Losses
 Down
 Setup
 Standby

Print / Preview

Available Items
 First Shift
 First Shift WE
 Gap Shift
 Manual Reset
 Second Shift
 Second Shift WE
 Shift Undefined

Report By
 Shift only
 Shift then Device
 Device then Shift
 Device only
 Hierarchy

Include Charts
 State Summary
 OEE Trend

Hierarchy Level
Location: [v]
Level:
Enterprise
Geographic
Location
Order Type
OrderType
PlanningPlant
Plant
[x]

Selecting the Hierarchy Level provides the list of Hierarchy properties for your system.

This is an example of a customer's hierarchy.

The report will be summarized at the selected level.

Reports – All Shift Production - Hierarchy

Hierarchy

Enterprise VetiGROUP MFG

Downtime calculation

Include Standby in Downtime

Include Setup in Downtime

Date Range

From 5/3/2016 5:00 AM

To 5/17/2016 2:00 AM

Preset Dates Prev/Next

Choose Preset <<...>>

Production Filters

Device [All Devices] All

Part [All Parts] All

Available Items

First Shift

First Shift WE

Gap Shift

Manual Reset

Second Shift

Second Shift WE

Shift Undefined

Report By

Shift only

Shift then Device

Device then Shift

Device only

Hierarchy

Include Charts

State Summary

OEE Trend

Hierarchy Level

Region v

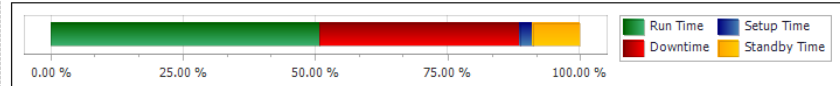
Print / Preview

OEE Studio, Application Licensed to Veti Group (Global).

All Shift Production Summary for Enterprise : VetiGROUP MFG

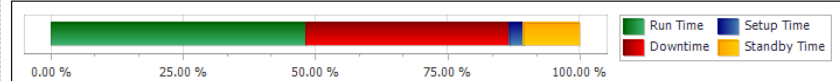
All Devices, All Parts. First Shift, First Shift WE, Gap Shift, Manual Reset, Second Shift, Second Shift WE, Shift Undefined
5/3/2016 to 5/17/2016. OEE Includes Setup, Excludes Standby.

Total VetiGROUP MFG



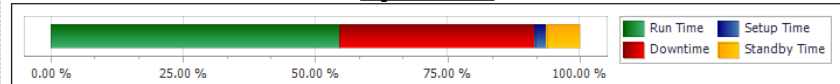
OEE		Top 5 Downtime Events						
Availability :	56%	State	Reason	Total Time	Counts	Minimum	Average	Maximum
Performance :	73%	Down	None	1700h 37m 29s	2153	00h 00m 00s	00h 47m 23s	40h 18m 28s
Quality :	100%	Down	0050 Start-up/shut-down	187h 51m 09s	188	00h 00m 00s	00h 59m 57s	39h 06m 47s
OEE :	41%	Down	0100 Roll Change	101h 52m 45s	173	00h 00m 00s	00h 35m 20s	39h 46m 19s
Good Ct :	3,981,985	Down	0160 Break	76h 08m 33s	186	00h 00m 00s	00h 24m 33s	00h 49m 22s
Reject Ct :	1,280	Down	0050 Clean-Up	62h 22m 37s	61	00h 00m 00s	01h 01m 21s	10h 30m 01s
Efficiency :	58%							

Region Midwest



OEE		Top 5 Downtime Events						
Availability :	54%	State	Reason	Total Time	Counts	Minimum	Average	Maximum
Performance :	72%	Down	None	951h 28m 07s	1327	00h 00m 00s	00h 43m 01s	40h 18m 28s
Quality :	100%	Down	0050 Start-up/shut-down	161h 34m 14s	148	00h 00m 00s	01h 05m 30s	39h 06m 47s
OEE :	39%	Down	0100 Roll Change	92h 32m 42s	110	00h 00m 00s	00h 50m 28s	39h 46m 19s
Good Ct :	2,235,213	Down	0160 Break	56h 52m 50s	143	00h 00m 00s	00h 23m 51s	00h 49m 22s
Reject Ct :	0	Down	1260 Loader	44h 54m 47s	9	00h 00m 00s	04h 59m 25s	39h 41m 34s
Efficiency :	57%							

Region Northeast



OEE		Top 5 Downtime Events						
Availability :	58%	State	Reason	Total Time	Counts	Minimum	Average	Maximum
Performance :	74%	Down	None	749h 09m 22s	826	00h 00m 00s	00h 54m 25s	38h 51m 01s
Quality :	100%	Down	0050 Clean-Up	47h 18m 28s	23	00h 00m 00s	02h 03m 24s	10h 30m 01s
OEE :	43%	Down	0050 Start-up/shut-down	26h 16m 55s	40	00h 00m 00s	00h 39m 25s	07h 16m 24s
Good Ct :	1,746,772	Down	0160 Break	19h 15m 43s	43	00h 00m 00s	00h 26m 52s	00h 45m 02s
Reject Ct :	1,280	Down	1560 Settling Device	16h 00m 22s	22	00h 00m 00s	00h 43m 39s	03h 11m 43s
Efficiency :	60%							

Reports – All Shift Production - OEE Trend

Hierarchy
Enterprise | VetiiGROUP MFG

Date Range
From: 5/3/2016 5:00 AM
To: 5/17/2016 2:00 AM

Production Filters
Device: [All Devices] | Part: [All Parts]

Downtime calculation
 Include Standby in Downtime
 Include Setup in Downtime

Show in Top Losses
 Down
 Setup
 Standby

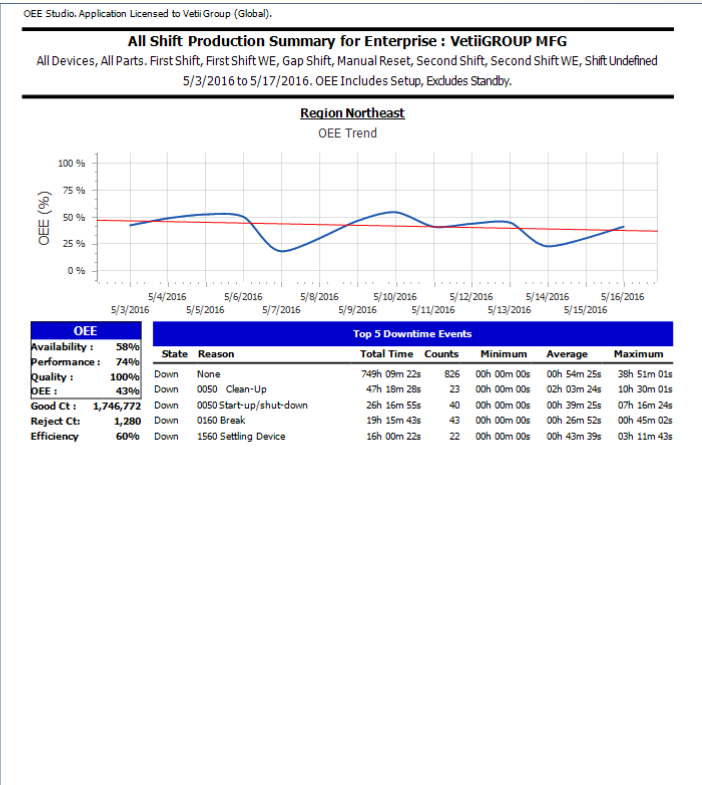
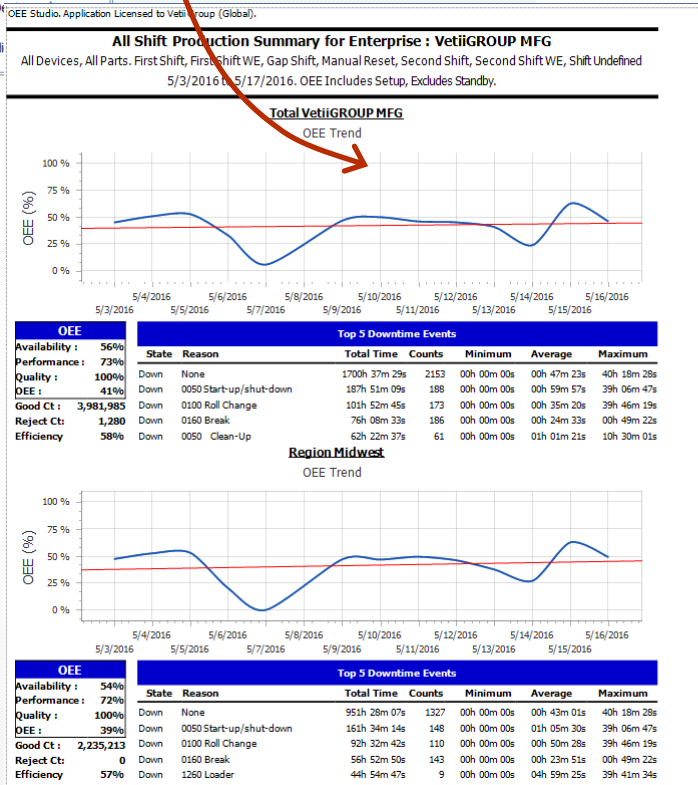
Report By
 Shift only
 Shift then Device
 Device then Shift

Include Charts
 State Summary
 OEE Trend

Print / Preview

Available Items
 First Shift
 First Shift WE
 Gap Shift
 Manual Reset
 Second Shift
 Second Shift WE
 Shift Undefined

Optionally select to display the OEE Trend for the selected date range.



Reports – All Shift Production

Select both charts for a comprehensive view of your plant.

Hierarchy

Enterprise VetiGROUP MFG

Downtime calculation

Include Standby in Downtime

Include Setup in Downtime

Date Range

From: 5/3/2016 5:00 AM

To: 5/17/2016 2:00 AM

Preset Dates: Choose Preset

Prev/Next: <<...>>

Production Filters

Device: [All Devices] All

Part: [All Parts] All

Show in Top Losses

Down

Setup

Standby

Available Items

First Shift

First Shift WE

Gap Shift

Manual Reset

Second Shift

Second Shift WE

Shift Undefined

Report By

Shift only

Shift then Device

Device then Shift

Device only

Hierarchy

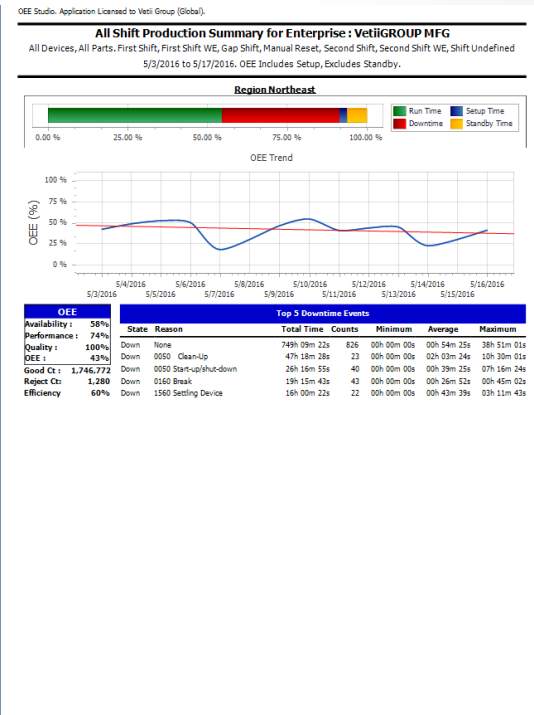
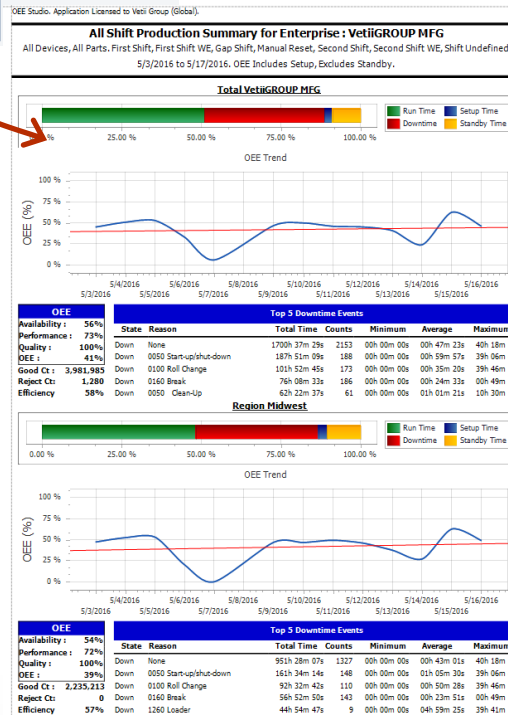
Include Charts

State Summary

OEE Trend

Hierarchy Level

Region



Daily Shift Production Report

Select which types of losses to display on the report.

Hierarchy
 Location: Lebanon, CT

Date Range
 From: 5/16/2016 5:00 AM
 To: 5/17/2016 2:00 AM

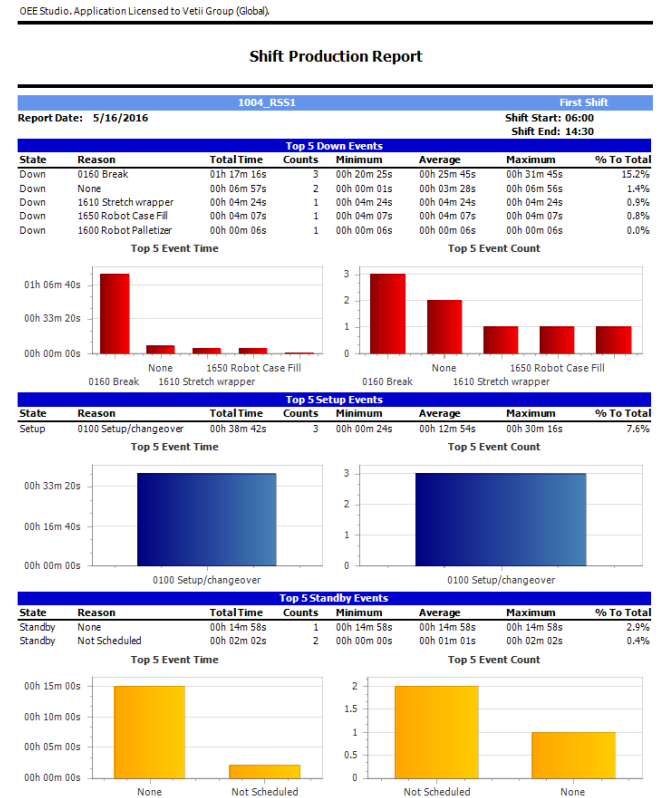
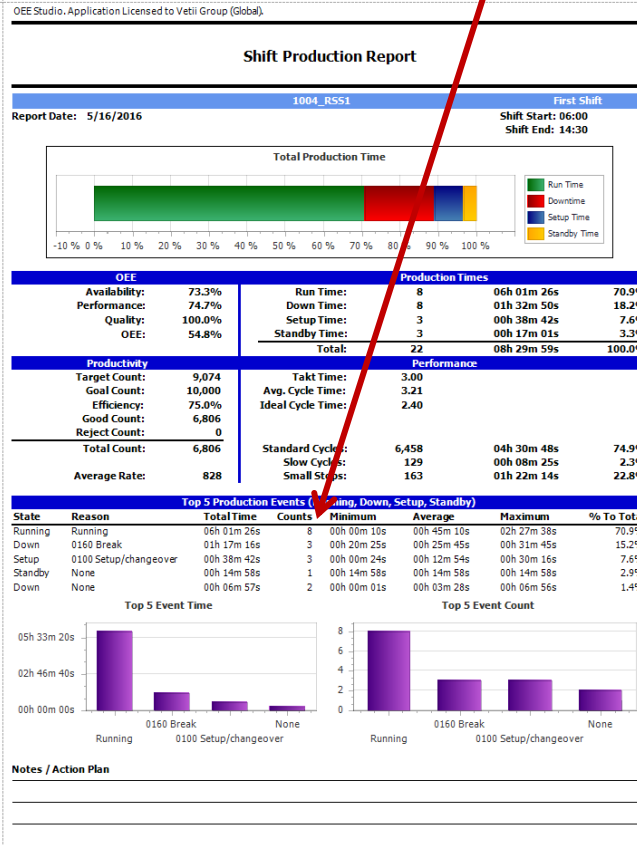
Available Items
 First Shift
 First Shift WE
 Gap Shift
 Manual Reset
 Second Shift
 Second Shift WE

Show in Top Losses
 Running
 Down
 Setup
 Standby

Print / Preview

Shift Reports

- Production
- Shift Production
- All Shift Production
- Shift Summary
- Shift OEE
- Shift OEE With Comments
- Line Reports
- Line OEE



Shift OEE Report

Shift Reports
^^

- Production
- Shift Production
- All Shift Production
- Shift Summary
- Shift OEE
- Shift OEE With Comments
- Line Reports
- Line OEE

Hierarchy

Location: Lebanon, CT

Downtime calculation

Include Standby in Downtime

Include Setup in Downtime

Date Range

From: 5/3/2016 5:00 AM

To: 5/17/2016 2:00 AM

Preset Dates: Choose Preset <<...>>

Available Items

- First Shift
- First Shift WE
- Gap Shift
- Manual Reset
- Second Shift
- Second Shift WE

Devices

[All Devices]

Show in Top Losses

Running

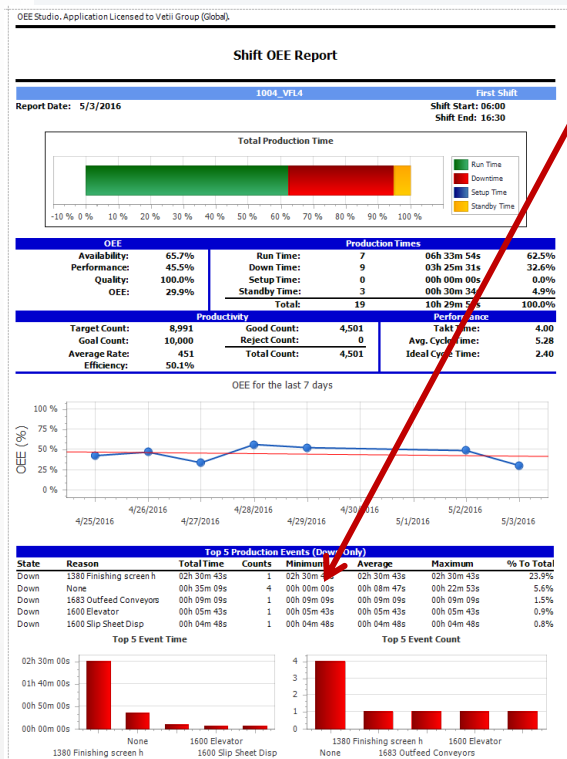
Down

Setup

Standby

Print / Preview

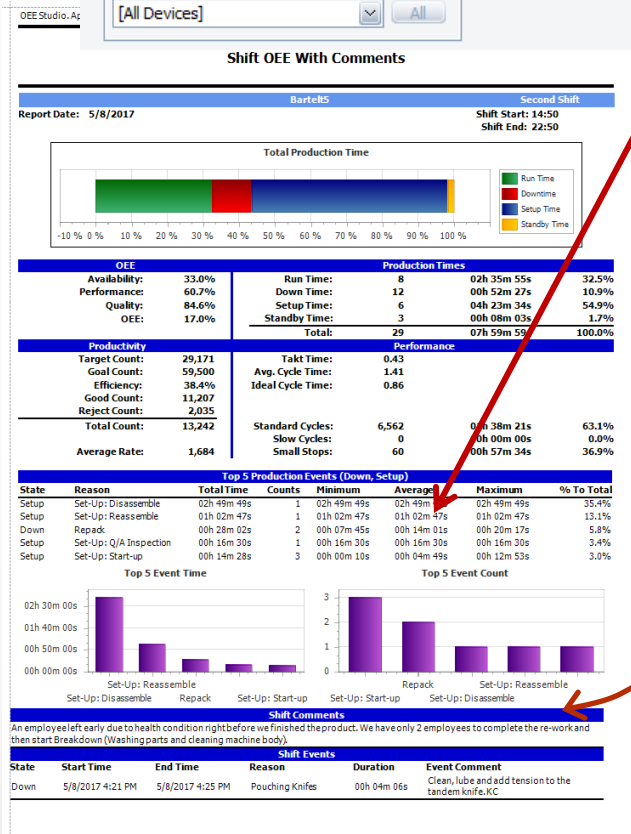
Select which types of losses to display on the report.



Provides a 1-page summary of each shifts, by line for each date in the given date range.

Shift OEE Report with Comments

Select which types of losses to display on the report.



Provides a 1-page summary of each shifts, by line for each date in the given date range.

This report will also display any **comments** that were added for any production events and the associated shift interval – through OEE Alert.

Line OEE Report

Shift Reports

- Production
 - Shift Production
 - All Shift Production
- Shift Summary
- Shift OEE
- Shift OEE With Comments

Line Reports

Line OEE

Hierarchy

Location: Lebanon, CT

Date Range

From: 5/3/2016 5:00 AM
 To: 5/4/2016 2:00 AM

Preset Dates: Choose Preset
 Prev/Next: <<...>>

Available Devices

- 1004_RSS1
- 1004_VFL1
- 1004_VFL2
- 1004_VFL3
- 1004_VFL4
- 1004_VFL5

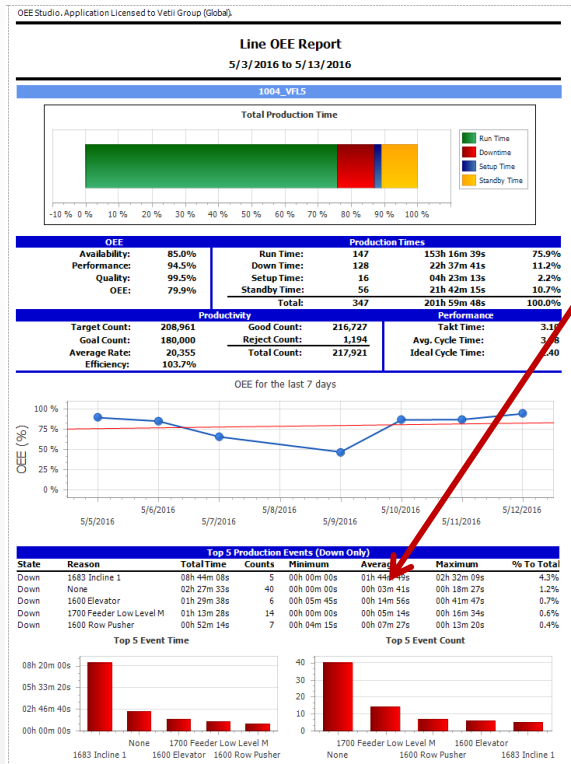
Downtime calculation

- Include Standby in Downtime
- Include Setup in Downtime

Show in Top Losses

- Running
- Down
- Setup
- Standby

Select which types of losses to display on the report.



Provides a 1-page summary of each selected line for the selected date range.

Analyze Loss Percentage to Total Production Time

Let's say we wanted to see the percentage of Loss Reason 'None' to total Production Time by Line. **Total Production Time** includes all Run, Down, Setup and Standby Time.

There is a new data element called '**Line Production Time**'.

This data element will display the amount of production time that was available for the line, for the date range selected.

Drag the data element to the **Data Area** of the Field List.

PivotGrid Field List

Drag Items to the PivotGrid

- Crew Name
- End Time
- Line Production Time**
- Nbr Cuts
- Start Time
- State
- User No. 3
- User No. 4
- User No. 5
- User No. 6
- User No. 6
- User String 2
- User String 3
- User String 4
- Water Flowrate
- Water Temperature

Drag fields between areas below:

- Filter Area
 - Enterprise
 - Geographic
 - Location
- Row Area
 - Device
 - Loss Reason
- Column Area
- Data Area
 - Duration (Sum)**
 - Reason Count

Defer Layout Update Update

Availability Loss Comparison

Hide Main Menu

Hierarchy: Location: Lebanon, CT

Date Range: From 5/3/2016 5:00 AM To 5/17/2016 2:00 AM

Production Filters: Shift [All Shifts] Device [All Devices] Part [All Parts]

Include: Effect Run Time Down Time Setup Time Standby Time

Options: OEE Alert Coloring for Reason: "None"

Apply / Refresh Print / Export Visit our [Pivot Grid Help Page](#) to learn more

Tabular Analysis Grid Analysis

Enterprise Geographic Location Order Type OrderType PlanningPlant Plant Region Type

Duration (Sum) Reason Count Line Product... Drop Column Fields Here

Device	Loss Reason	Duration (Sum)	Reason Count	Line Production Time
Grand Total		64h 28m 39s	30	186h 02m 01s
- 1004_RSS1	None	03h 13m 07s	50	255h 45m 03s
- 1004_VFL1	None	05h 08m 39s	57	228h 57m 34s
- 1004_VFL2	None	03h 06m 19s	43	231h 43m 47s
- 1004_VFL3	None	07h 56m 59s	77	234h 44m 21s
- 1004_VFL4	None	03h 08m 41s	48	255h 45m 28s
- 1004_VFL5	None	87h 02m 24s	305	1392h 58m 14s

New Custom Expression

Options

Field Description:

Result Type:

- Boolean
- Date and Time
- Date Only
- Decimal
- Integer
- String
- Currency
- Custom Date Interval

Summary Type:

- Count
- Std Dev
- Std Dev P
- Sum
- Min
- Var
- Var P
- Average

The sum of the values.

Append Summary Type to the Field Description
If the Field Description is "Cost" and the Summary Type is "Sum", the field will display as Cost (Sum) if this option is chosen. Otherwise it will simply display as "Cost".

Hide Field

Use Summary Values

Cancel Proceed to Expression Editor >>

Analyze Loss Percentage to Total Production Time

We then filter the screen to display only the 'None' Reasons.

Next we create a custom field to calculate the Percentage of the loss to total production time.

Expression editor

Functions
Operators
Fields
Constants

[Crew Name]
[Device]
[Duration]
[End Time]
[Enterprise]
[Geographic]
[Line Production Time]
[Location]
[Loss Reason]
[Nbr Cuts]
[Order Type]
[OrderType]
[PlanningPlant]

Field Information
Caption: Line Production Time
The type of this field is: System.Int32

OK Cancel

Device	Loss Reason	Duration (Sum)	Reason Count	Line Production Time	PCT To Production
1004_RSS1	None	64h 28m 39s	30	186h 02m 01s	34.66
1004_VFL1	None	03h 13m 07s	50	255h 45m 03s	1.26
1004_VFL2	None	05h 08m 39s	57	228h 57m 34s	2.25
1004_VFL3	None	03h 06m 19s	43	231h 43m 47s	1.34
1004_VFL4	None	07h 56m 59s	77	234h 44m 21s	3.39
1004_VFL5	None	03h 08m 41s	48	255h 45m 28s	1.23
Grand Total		87h 02m 24s	305	1392h 58m 14s	6.25

Finding the Top 'x' Values

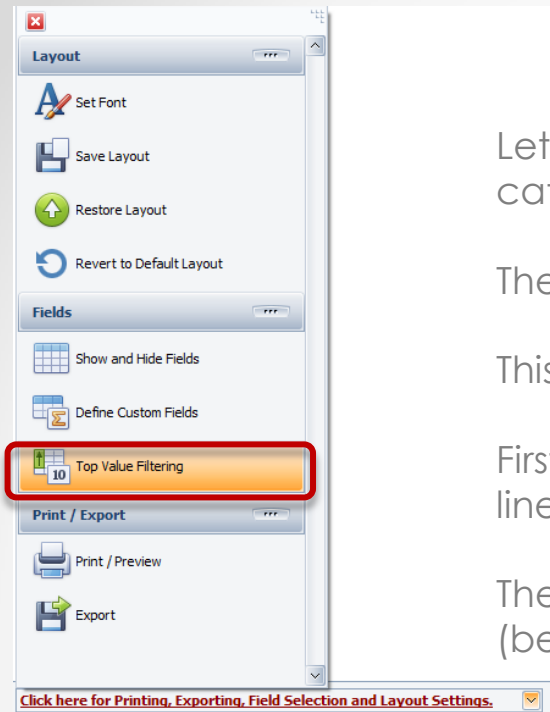
Let's say we want to find the Top 3 downtime reasons for a specific category of downtime, by line.

There is a new **function** called **Top Value Filtering**.

This **function** is available in the any of the pivot grids.

First, we are going to display the list of Down Time reasons for all of our lines.

Then we are going to filter for those reasons that begin with MS (because we use reason codes responsibly ~ [[Click Here to learn more](#)])



Select multiple Duration or Reason Count values to chart information

Asset	Enterprise	Line	Location	MachineID	Plant	SubType
Duration Reason Count						
Drop Column Fields Here						
		Grand Total	Duration	Reason Count		
1 Coil		BR CONV/CURLER	00h 11m 37s	2		
		BR LINER	01h 15m 35s	5		
		MS BLISS	01h 43m 42s	45		
		MS BLS THREADUP	02h 11m 24s	25		
		MS CONV/CURLER	02h 06m 23s	62		
		MS DUMP HOPPER	00h 26m 26s	7		
		MS INTERNAL Q.C.	00h 01m 52s	1		
		MS LAZY SUSAN	00h 19m 22s	8		
		MS LINER	03h 07m 04s	91		
		MS SLEEVING	00h 15m 47s	9		
		MS VISION	00h 21m 24s	6		
		None	00h 45m 58s	8		
		SS STARTUP	00h 05m 44s	4		
		WIP RECON	00h 01m 09s	1		
1 Coil Total			12h 53m 27s	274		
L03		BR BLISS	03h 49m 11s	13		
		BR CONV/CURLER	00h 56m 11s	1		

PivotGrid Prefilter

And +

[Reason] Begins with MS

OK Cancel Apply

Finding the Top 'x' Values

The screenshot shows a software interface with a table. The table has columns for 'Duration' and 'Reason Count'. A red box highlights the 'Duration' column header, labeled with a green starburst '1'. A context menu is open over the 'Duration' column, with 'Sort Reason by This Column' highlighted in orange, labeled with a green starburst '2'. A red box highlights the 'Reason' column header, labeled with a green starburst '3'. The table data is as follows:

Device	Reason	Duration	Reason Count
1 Coil	MS BLISS	01h 43m 42s	45
	MS BLS THREADUP	02h 11m 24s	25
	MS CONV/CURLER	02h 06m 23s	62
	MS DUMP HOPPER	00h 26m 26s	7
	MS INTERNAL Q.C.	00h 01m 52s	1
	MS LAZY SUSAN	00h 19m 22s	8
	MS LINER	03h 07m 04s	91
	MS SLEEVING	00h 15m 47s	9
	MS VISION	00h 21m 24s	6
	MS WAIT ON MAT.	00h 01m 08s	1
L03 Total		08h 09m 58s	143
L10	MS BLISS	06h 51m 22s	107
	MS CONV/CURLER	05h 54m 26s	102
	MS INTERNAL Q.C.	00h 11m 21s	6
	MS LINER	04h 35m 35s	130

Next, we need to sort the durations largest to smallest.

1. Right-mouse click on the **Duration** Column and select Sort "**Reason**" by This Column".
2. It will display the up/down arrows to indicate sorting.
3. Next, click on the arrow on the **Reason** column heading to sort highest to lowest durations.

Finding the Top 'x' Values

1. Choose 'Top Value Filtering' menu option.
2. Select what you want to filter and click 'OK' button.
3. Now you have the Top 3 losses that begin with 'MS' for each line.

Click here for [Printing, Exporting, Field Selection and Layout Settings.](#)

Device	Reason	Duration	Reason Count
1 Coil	MS LINER	03h 07m 04s	91
	MS BLS THREADUP	02h 11m 24s	25
	MS CONV/CURLER	02h 06m 23s	62
1 Coil Total			178
L03	MS BLISS	02h 37m 45s	37
	MS MAGAZINE	01h 25m 03s	20
	MS CONV/CURLER	01h 18m 59s	28
L03 Total			85
L10	MS BLISS	06h 51m 22s	107
	MS CONV/CURLER	05h 54m 26s	102
	MS MAGAZINE	05h 16m 56s	102
L10 Total			311
L16	MS CONV/CURLER	08h 13m 54s	69
	MS STOLLE	07h 32m 04s	52
	MS STOLLE THREADUP	03h 58m 32s	18
L16 Total			139
L17	MS LINER	04h 31m 22s	68
	MS OVEN EXIT	04h 15m 21s	30
	MS ST. THREADUP	03h 33m 45s	30
L17 Total			128
L19	MS STOLLE	05h 34m 34s	12
	MS LINER	01h 24m 15s	13
	MS BLS THREADUP	00h 49m 34s	2
L19 Total			27
L21	MS CONV THREAD	05h 10m 56s	35
	MS CONVEYORS	01h 45m 37s	78
	MS CONV PRESS	01h 32m 17s	17
L21 Total			130

Excel Export – Raw Format

To Export raw data to MS Excel select the **Export** option from the '**Click here for Printing, Exporting, Field Selection and Layout Settings**' drop-down.

Selecting the Raw option will allow you to export the data without cell merge, report headers or footers, etc. to MS Excel.

Layout

- Set Font
- Save Layout
- Restore Layout
- Revert to Default Layout

Fields

- Show and Hide Fields
- Define Custom Fields
- Top Value Filtering

Print / Export

- Print / Preview
- Export**

[Click here for Printing, Exporting, Field Selection and Layout Settings.](#)

66.2	40.4
86.3	66.7
82.2	61.9
80.5	64.5
81.6	73.6
77.8	61.1
79.3	63.5
89.4	82.3
88.7	88.7
5.8	4.6
83.3	72.0
86.3	77.7
85.7	45.3
85.1	45.8
39.1	16.9
78.4	37.8
82.0	41.6
81.6	76.4
75.3	73.9
63.3	59.9
91.6	87.3
85.1	80.7
76.1	59.8

Export Data

- Excel (XLSX)
- Excel (XLS)
- CSV
- PDF
- Text
- HTML

Excel Export Format

- Standard
- Raw

File Name

OK Cancel

OEE Studio v 3.5

In order to support the new Vorne v1.3.x firmware, you must upgrade to the latest

XL Bolt-on Data Collector version 1.8.3

<http://www.sulzerconsulting.com/downloads/vorne/XL Bolt-On Data Collector.zip>

Version 3.5 of OEE Studio supports all versions of Vorne XL device v1.x firmware.

Smart Installation

<http://oeestudio.com/installs/release/v3/setup/InstallOEEStudio.exe>

If you have questions or need assistance, please contact either
Debbie Olk (OEE Studio, OEE Alert, ERP integration, or custom reports)

Debbie.olk@debtechsystems.com

or

Jim Sulzer (XL Bolt-On Data Collector).

jim@sulzerconsulting.com

Contact Us

- As the Vorne Authorized Reporting Consultants, we provide customized reporting solutions, including working with data from your ERP/MRP systems.
- In addition to customized reporting, we provide support and customization for the **OEE Studio** reporting software (designed specifically for the data captured from the Vorne XL devices).
- We also provide sales, support and customization for **OEE Alert**. (www.OEEAlert.com)

OEE Studio, OEE Alert and XL Bolt-On Data Collector are part of the Marketing brand of

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