

# Distinct Counts Jobs & Parts

Added Distinct Job, Part, Reason Count fields to Availability/Loss Events/Parts.

They are available in the PivotGrid Field List and in the Fields of the Expression Editor.

The image shows two software interfaces. The top interface is the 'PivotGrid Field List' window. It has a title bar and a close button. Below the title bar is the instruction 'Drag Items to the PivotGrid' and a grid icon. The main area is divided into two sections: 'Filter Area' and 'Row Area'. The 'Filter Area' contains a list of fields: Asset, Enterprise, Line, Device, Location, Plant, and Type. The 'Row Area' contains a dropdown menu with 'Reason' selected and 'Job' below it. A red box highlights three fields in the left column: 'Distinct Job Count', 'Distinct Part Count', and 'Distinct Reason Count'. The bottom interface is the 'Expression Editor' window. It has a title bar and a close button. The main area is divided into two sections: 'Functions' and 'Fields'. The 'Fields' section contains a list of fields: '[Distinct Job Count]', '[Distinct Part Count]', '[Distinct Reason Count]', '[Duration]', '[Job]', and '[Reason Count]'. A red box highlights the first three fields in the 'Fields' section.

# Distinct Jobs & Parts

Several customers have asked to be able to view the average time for jobs for a specific loss event.

In this example, we see that in a one week period, across 8 production lines, we ran 50 jobs and had over 42 hours of downtime for **just** Capper/Pumps Events averaging .84 hours for each event.

The screenshot shows a software interface for "Availability Loss Events (Part)". It includes a "Hierarchy" section with "Enterprise" and "VetiGROUP MFG" selected. A "Date Range" section shows dates from 10/3/2016 to 10/7/2016. "Production Filters" are set to "All Devices" and "All Parts". An "Include" section has "Down Time" checked. A summary table is displayed below the filters.

| Grand Total         |             |                    |                        |
|---------------------|-------------|--------------------|------------------------|
| Reason              | Duration    | Distinct Job Count | Avg. Job Duration(hrs) |
| + 1300 Capper/Pumps | 42h 10m 05s | 50                 | 0.84                   |

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To do this we need to Calculate average event duration by dividing the event duration by the number of distinct jobs ran during that duration. Create a new custom field.

The screenshot shows the 'Options' dialog box for a custom field. The 'Field Description' is 'Avg. Job Duration(hrs)'. The 'Result Type' is 'Decimal'. The 'Summary Type' is 'Sum'. The 'Use Summary Values' checkbox is checked. The 'Append Summary Type to the Field Description' checkbox is unchecked. The 'Hide Field' checkbox is unchecked. The 'The sum of the values.' text is visible in the Summary Type section.

The screenshot shows the 'Expression editor' dialog box. The expression entered is  $[Duration] / ([DistinctJobCount] * 3600.0)$ . The 'Distinct Job Count' and 'Duration' fields are highlighted in the Fields list.