



UNIVERSAL TRENDING

Available to All Users

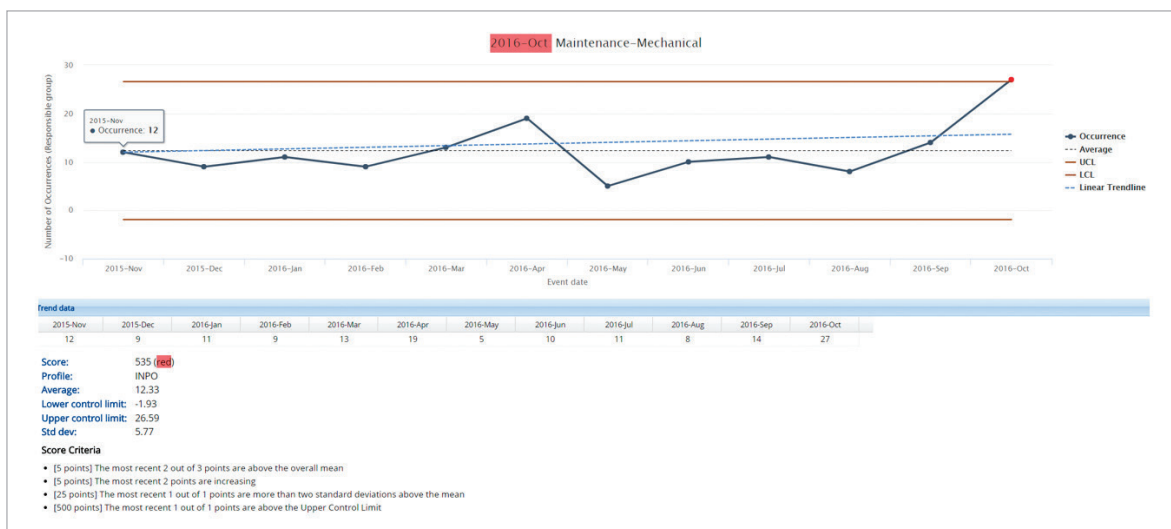
Spreadsheet-based trending reports are error-prone, non-scalable, silo'ed, and often require dedicated personnel to create and maintain. With its easy-to-use web interface, DevonWay Universal Trending allows even non-technical users to generate trends across any type of structured data, without involving IT. Anyone can create and run trend reports across code libraries, departments, teams, locations, or anything else with discrete data values. Users can drill down into a graphical overview that includes a full historical view of those values, then drill down even further into the underlying data to get to the bottom of any deviation. In addition, users can set up alerts to trigger as soon as a specified trend is identified so they can follow trends in real-time, without having to log into the system.

Summary of Benefits

- **Unlock new insights** with high-level visualizations and full historical views
- **Empower non-technical users** with custom settings and alerts that can be configured without IT
- **Save time and money** by eliminating the manual work associated with spreadsheet-based trending

Customizable Trend Profiles

Administrators can configure their own trend profiles through a simple, web-based screen, without help from DevonWay or IT. A rich set of scoring criteria inputs, such as “X points out of Y are more than two standard deviations above or below the mean” and “The number of occurrences is greater than or equal to X in a set of Y periods” provide for fine-tuned control over Statistical Process Control (SPC) charts. Alternatively, customers who don’t have specific trend profile requirements can simply use the pre-provided standard heat map, outlier, and SPC profiles.



Key Features

Instant Results Across All Data

DevonWay trend reports can be produced against any field with discrete values, such as cause codes, departments, significance levels, asset types, etc. Since the underlying datasets are retrieved by performing facet queries against an in-memory database, they return virtually instantaneously, without the expensive, labor-intensive index maintenance or data cube setup a traditional database-centric trending solution would require. And since Universal Trending is fully integrated with search, no data conversions or interfaces are required.

Multiple Visualization Types

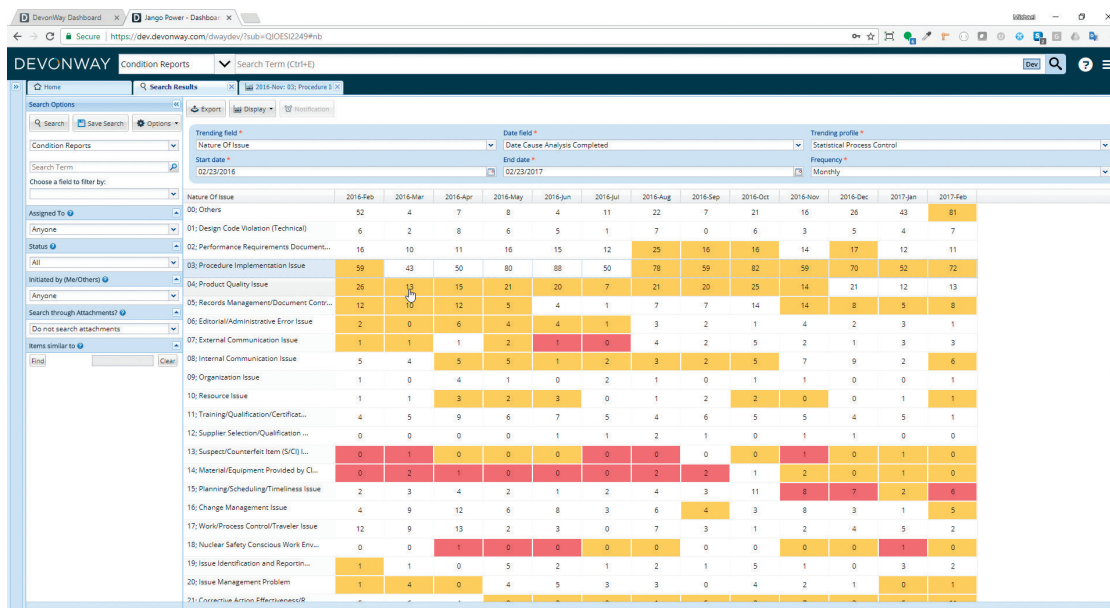
Trend results can be visualized as heat maps that are colored based on each cell's value relative to the entire dataset or to the other values in its row; as admin-configurable Statistical Process Control charts, where each cell's color is driven by sophisticated scoring rules; or as a simple grid of values.

Easy-to-Use, Self-Service Interface

Any user can create, save, and share trend reports, without requiring IT or DevonWay support. Common trend profiles come preconfigured, so users can start running trends out of the box, and graphical overviews can be exported to Excel, with all formatting and coloring retained.

Full Drilldown

The initial view of a trend report shows a grid of cells colored according to the underlying trend profile; from there users click on a cell to see a row-specific chart with the trend line, control limits, and other useful information; from which they can click on a specific period to see a list of the underlying data items feeding that point; from which, finally, they can drill into the specific data item of interest to them. The completeness of the drilldown functionality ensures that users have a full view of the underlying data necessary to draw correct conclusions.



Admin-Definable Profiles

Without involving IT or DevonWay, customer administrators with the proper role can create and manage sophisticated trend profiles and statistical process control charts using scoring criteria like “the most recent X points are increasing”, “the average is greater than or equal to X in a set of Y periods”, “the most recent X out of Y points are above the Upper Control Limit”, and many more.

Trigger-Based Notifications

Once a trend report has been created and saved, users can set up a notification to have the system automatically send an alert when the most current period crosses over a particular threshold, ensuring that important trends gain visibility on a timely basis without someone having to log into the system and manually run the report.

Scoring Criteria			
+ Criteria			
Criteria	X	Y	Points
The most recent X out of Y points are above the mean	2	3	5
The most recent X points are increasing	2		5
The most recent X out of Y points are more than two standard deviations above the mean	1	1	25
The most recent X out of Y points are above the Upper Control Limit	1	1	25
The most recent X points are increasing	5		25
The most recent X out of Y points are more than one standard deviation above the mean	2	3	25
The most recent X out of Y points are above the mean	10	11	50
The most recent X out of Y points are more than one standard deviation above the mean	4	5	500
The most recent X points are increasing	7		500
The most recent X out of Y points are above the mean	7	7	500
The most recent X out of Y points are more than two standard deviations above the mean	2	3	500

Color Criteria		
+ Criteria		
If the score/value is greater than or equal to	But less than or equal to	Set the cell color to
0	4	White
5	35	Green
36	499	Yellow
500	9999	Red

With its easy-to-use web interface, DevonWay Universal Trending allows even non-technical users to generate trends across any type of structured data



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