How Do I Use My Data for Trend Analysis?

Link: https://help.wextelematics.com/deep-dive/how-do-i-use-my-data-for-trend-analysis/ Last Updated: March 30th, 2017

QUESTION:
How can I optimize my fleet utilization in the future and make better business decisions?

The best predictor of future fleet utilization is ...
cues drum roll Past fleet utilization! This sounds logical enough, right?

Importance of Trend Analysis

Looking for trends in your data helps you discover new business opportunities, improvement areas, and perform risk assessments. Benchmarking historical data to highlight KPIs leads to enhanced business decisions.

Note. Refer to this example of a fleet management program for the first year, separated into phases:
Fleet Management Program Example

All historical vehicle activity is shown on the Map Dashboard (2D History and 3D History Maps) and included in reports as long as you are a customer. Utilizing APIs to send report data and scheduling reports to be emailed monthly are excellent ways to collect data. Sound complicated? Don't worry, it's not.

Here are a few tricks to know about manually running historical reports:

- Some reports may take longer to run or may need to be run for shorter windows of time or smaller vehicle groups.
- Reports can be run in increments based off the time from the current date (i.e., Data from the last 3 months can be run together at once and any month past that point must be selected individually).
- The most common reports used by customers to collect data for trending include Fleet Utilization, Idle Summary, and Posted Speed Reports.
- Enter collected data into a trending table in Excel™ (example shown below).

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YEAR TO DATE KEY METRICS

Focus	Q3 2016	Q4 2016	Q1 2017
# of Vehicles	1,429	1,427	1,433
# of Assets	163	172	168
# of Drivers	65	71	75
Total Miles Driven	1,617,334	2,066,469	2,146,665
Engine Hours	92,706	103,731	116,716
Asset Hours	25,670	20,573	20,644
Total Stops	106,302	141,385	163,403
Total Idle Time Hours	47,337	46,127	54,100
Idle time Average (All) **%**	52%	45%	47%
Idle time Average (10 min.+) **%**	47%	39%	41%
Idle Stops (10 Min. +)	62,134	63,126	73,653
Idle Fuel Gallons (10 Min. +)	29,775	27,976	32,642
Idle Hours (10 Min. +)	42,162	40,089	47,118
Speed Violations (10 MPH + Posted Speed)	87,149	121,009	129,547

Download File

GPS Insight Trending Table Excel™

The following tools are available to collect historical data for trending analysis:

- An available option to export report data to Excel™ when running reports manually (ad-hoc).
- Ability to send scheduled monthly reports to one or more email address for you to file in an End of Month/Quarter/Year Compilation folder.
- API integration to push trending report data to your back-end systems.

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