

# VisionLink Glossary

## A

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- **Administrator**

An account type that defines the enhanced level of permissions (access or rights) granted to a user in the VisionLink application. Administrators have all system permissions and set permissions for Standard and Read Only users.

- **AEMP**

Association for Equipment Professionals. The industry organization that has developed the AEMP Telematics Data Standards, a specification widely supported and adapted by commercial machinery providers.

- **API**

Application Programming Interface. A source code-based specification intended to be used as an interface by software components to communicate with each other.

- **Asset**

An object that is critical to a user's workflow and provides data that is measurable and is transmittable to the software platform. Example: Heavy Equipment, Light Tower, Trench Box, Support Equipment, Telematics device, etc. It has to at least transmit location data to have a potential to be an asset. A rule of thumb is whether it can be outfitted with a device.

- **Asset Filters**

Also known as global filters, these are filters that are not specific to a single page. Asset filters are attributes that align with the asset. Asset filters do not change when the user changes pages. For example, the asset filters applied in the Assets page are also shown in the Health page.

- **Asset Icon**

A visual depiction of the asset. Asset icons are based on product family. A generic asset image is the default icon for an asset that does not match a product family within the VisionLink software. Only Administrators and Standard users can modify Asset Icon.

- **Asset ID**

Unique customer-defined name, or a nickname / identifier for an asset. Administrators and standard users can change their Asset ID.

- **Asset Off**

Asset Status for an ignition off event.

- **Asset On**

Asset Status for an ignition on event.

- **Asset Operations**  
A set of data visualizations for easily identifying outlier assets and days that are not meeting utilization targets.
- **Asset Security**  
A feature that allows the asset's Tamper Level and/or Start Mode to be configured. Alerts can be configured to trigger when the Start Mode changes. Also known as Operation Status.
- **Asset Status**  
Tells you the state of the asset, such as whether the asset is on, off, no status reported, or not supported. VisionLink also supports custom asset statuses.
- **Attachment**  
Any file type that a user uploads.
- **Average Burn Rate**  
Utilization Total Fuel Burned / Runtime. Units are either in gallons/hour or liters/hour.

## B

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- **Backlog**  
A single-instance service that can be associated with an existing service or scheduled as a standalone activity and tracked by hours, distance, fuel consumption, generated power, or days.
- **BAR**  
A unit of pressure measured as force per unit area. Equal to 100 kPa (14.504 PSI).
- **Buy Parts**  
This option indicates you are buying parts to resolve a fault code, complete a PM, and otherwise maintain your fleet's health. See also **Shop Parts**.

## C

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- **Cancel Subscription**  
Customer Administrators can initiate a subscription cancellation request using the **Cancel Subscription** option on the **Subscription Upgrade Options** page.
- **Cat Username**  
Unique username and password credentials used to log in to VisionLink.

- **CDL**  
Caterpillar Data Link. This is the Caterpillar proprietary datalink. This also refers to how Caterpillar has defined data elements for transmission across the Data Link. CDL codes (PIDs and other parameters) can be transmitted over the J1939 datalink. CDL's transfer speeds are slower than J1939.
- **Charging History**  
This is available in the Asset Details Timeline for electric assets.
- **Charging Levels**  
This is an event category that is available in **Needs Review**. When a low charge notification is received, it will be displayed in the **Charging Levels** and will auto resolve once the battery charge is 80% or higher (electric assets only).
- **Comment**  
Item attached to an artifact that was generated by an action. For example, a resolved action on a needs review item will put it in the history, a resolved artifact. A comment is the same as a note except it inherits its permissions from the object it is attached to.
- **Count**  
Dynamic number of items that would appear in resulting records before filters are applied. The count must be greater than zero to apply filters.
- **Custom Asset Status**  
A method for users to communicate the state of an asset. Example: Available, Scheduled Maintenance, Unplanned Down. Custom status is manually set by the user.
- **CVA**  
Customer Value Agreement. Shows upcoming and expired Customer Value Agreement.

## D

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- **Daily Summary Circle**  
In Asset Operation and Asset Details Asset Operation, when the date is set for more than a single day, a daily summary circle is displaying data for each day.
- **Data Export**  
Download report(s).
- **DCN**  
Dealer Customer Name / Dealer Customer Number.
- **Debounce**  
Switch event sensitivity threshold in seconds. Any switch events that occur at a rate below this threshold are ignored.

- **DEF Level**  
Amount of Diesel Exhaust Fluid in an asset at time of data sampling.
- **Device Status**  
Tells you what is happening with the telematics device paired with the asset, which helps you determine the health of your devices and to easily identify devices that need attention.
- **Device Switch**  
The ability to attach aftermarket indicators to the machine and then wire them to device in order to understand what is happening on the asset. Example: Auto lube systems, fire suppression systems, and truck beds.
- **Device Type**  
Type of a product link which is commercially available and present inside the Caterpillar assets.
- **Digital Authorization consent**  
Used by Customer Administrators to provide consent in VisionLink to transmit their data to Caterpillar and participate in remote services for their assets.
- **Dismiss**  
Events in active state can be dismissed in **Needs Review** and will no longer be in active state.

Dismissing an event does not resolve it, but is seen only at a user level. For example, if you dismiss an event, it is dismissed only for you. The event remains active for all other users in the organization.

## E

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- **ECM**  
Electronic Control Module on board the asset.
- **Efficiency**  
The percentage of time the asset spent working versus idling while it is running (Working Time / Runtime as a percentage).
- **EID**  
Event Identifier. This is a CDL (Caterpillar proprietary datalink) based parameter that is equivalent of a Fault Code via the CDL system.
- **Em Dash**  
Em dash is displayed when data is not available. A zero value and an em dash are not the same values.

- **End of Day Reporting**

This is a configuration that can be set on an asset so the asset knows when the end of the day is. Users schedule all their assets to report at a key time period.

- **Engine Start**

The status of an engine when it was started.

- **Engine Stop**

The status of an engine when it was stopped.

- **Expected Runtime**

The number of hours an asset is expected or scheduled to be running during a period of time based on user-defined daily expected runtime values.

- **External Notification**

This is a blanket term for Text and Email.

## F

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- **Fault Code**

An indication of an unacceptable state or condition which is categorized as a Trouble Code or an Event Code.

- **Favorite**

An indicator at the top of the list of an item that you are most interested in or use often in VisionLink.

- **Filter Category**

A high-level container for similar items (for example, Asset Status, Device Status, Fuel Level, DEF Level, Product Family, Model, Make). Asset filter and Page filter categories are used to narrow the asset population to a working set of items contained in these categories.

- **First Occurrence**

The number of lifetime hours an asset's engine has run before the service should be performed for the first time.

- **Fluid Analysis**

Analysis of fluid samples taken from an asset. The Lab Number results are hyperlinked to the S·O·S<sup>SM</sup> Services website if fluid analysis was performed at a Caterpillar SOS laboratory.

- **FMI**

Failure Mode Identifier, when mixed with an SPN, CID, or EID, explains what has failed or how it has failed. This is a static list (J1939 and CDL have differences) of failure modes.

- **Frequency of a Service**

Indicates how often (in hours, miles, power, gallons, date or days) the interval should be performed. The service meter unit is based on the configuration by the user.

- **Fuel Burned**

The total volume of fuel the asset has burned during its engine's life.

- **Fuel Level**

Amount of fuel in an asset.

- **Fuel Loss**

A generated notification when the fuel loss exceeds the percentage user has set.

## G

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- **Generated Timestamp**

Timestamp when the device generated data.

- **Geofence**

A virtual perimeter of a geographic area that triggers a response when an asset enters or leaves the boundary. Can be used for organizing assets by geography, and can be used for site entry and exits.

- **Group**

Customizable sets of assets created by the user. Performing tasks on groups enables users to work more efficiently with multiple assets rather than working with each individual asset.

## H

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- **Health Events**

Contains Fault Codes, Fluid Analysis, and Inspection occurrences that need attention on the Needs Review page.

- **Historical Asset Status**

History of all asset status changes in the Asset Details Timeline.

- **Hour Meter**

The total number of hours an asset has run during its engine's life. Note – This term is not the same as Runtime.

## I

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- **Idle %**  
This shows how much of an assets runtime was in idle by percentage.
- **Idle Average Daily**  
This shows how many hours the asset is idling on average per day.
- **Idle Burn Rate**  
Idle Fuel Burned / Idle Time. Units are either in gallons/hour or liters/hour.
- **Idle Fuel Burned**  
The total fuel burned while the asset was idle during a period of time. Units are in gallons or liters.
- **Idle Hour Meter**  
The total number of hours the asset has idled during its engine's life.
- **Idle Time**  
The number of hours over a given time period for which an asset's engine is on, but not productive. Idle Time is the difference between Running Time and Working Time.
- **Idle Time %**  
This column in the **Fleet Usage Report** shows idle % value for the respective asset.
- **In App Notification**  
The delivery of a notification to the Needs Review page when a triggering event happens.
- **Inappropriate Image**  
Inappropriate uploaded images such as nudity or profanity are flagged and will not be saved in the Caterpillar's system. User will be notified that the image was deemed inappropriate and has been deleted.
- **Independent Intervals**  
Service intervals that do not depend on other intervals. Also known as incremental intervals.

## J

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- **J1939**  
A standard from SAE. This also refers to a datalink and datalink protocol. As such it has three definitions. In this context, J1939 refers to the way to define a fault code using the J1939 standard.

- **Jobsite**

Site where the work is being performed. Jobsites can be permanent sites like a mine, or can be more transient in nature, like building a new highway.

## K

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- **kPa**

Kilopascal. A unit of pressure measured as force per unit area.

## L

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- **Last Known Location**

Location where the asset was most recently located.

- **Last Known Status**

Depending on device type, indicates asset's status that was last known when reporting.

- **Last Reported**

The time and date in user's preferred timezone when an asset last connected.

- **Latest Utilization Report**

Timestamp when the latest complete utilization report was provided. This information is found in Manage > Reports.

- **Lifetime DEF Consumption**

An asset's lifetime consumption of DEF (Diesel Exhaust Fluid).

- **Lifetime Fuel Consumption**

An asset's lifetime consumption of fuel.

- **Lifetime Hours**

Hours tell how old the asset is and what performance to expect from it. Also, hours are the data point that is driving planned maintenance service intervals for many assets.

- **Location**

The last reported geographic position for a given asset.

- **Low Charge Level**

This is a default notification in **Needs Review** that will notify you when your electric asset's battery is 20% or lower (electric assets only).

# M

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- **Machine Security Status**

This is the ability to remotely make a machine incapable of starting or starting in a weakened state (sometimes called limp mode). This capability can come in various forms, but for VisionLink, the only functionality support will be to disable an asset.

- **Major Components**

Manufacturers' recommended service intervals on asset systems such as transmissions, engines, driveshafts, etc.

- **Make**

Name of the manufacturer of an asset.

- **Make / Model**

Provides a combination of both Make and Model. See individual terms for explanations. Make/Model format is used throughout the application.

- **Manual Maintenance**

Enables you to manage planned maintenance programs for assets that do not have telematics devices.

- **MID**

ECM identifier from which the diagnostic was generated.

- **Model**

The product name designation provided by the manufacturer. Different models exist for the same Product Family from a given manufacturer.

- **Model Year**

For cars and trucks, this is the model year. For heavy equipment, this is the year of manufacture.

- **Multiple Assets Multiple Days**

All assets are displayed on the Asset Operation page and the date is set to more than one day.

- **Multiple Assets Single Day**

All assets are displayed on the Asset Operation page and the date is set to a single day.

# N

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- **Nearest Dealer**  
When an asset has a location record, you can see the nearest dealer and its contact information.
- **Next Occurrence**  
Number of hours between the first time the service was performed and when it is next due.
- **Next Service**  
Upcoming or an overdue planned maintenance service with the oldest target date.
- **No Access**  
User has no access to VisionLink application, but can be subscribed to notifications and receive other information from VisionLink Users.
- **Non-Connected Assets**  
An asset that is not connected to the network.
- **Notes**  
Method of communication to track the progress of an asset. Example: A mechanic is working on an asset and does not have the proper part, and writes a note that the part is ordered and will be ready to install in two days.
- **Notification Method**  
This refers to the three ways a user can receive a message: SMS, Email, In App.

# O

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- **Occurrence Completion**  
Information related to the completion of a service that consists of a date, service meter value, and unit of measure.
- **Occurrence Count**  
The number of times a specific event or diagnostic has occurred since that event or diagnostic was cleared (resolved or dismissed).
- **Occurrence Delta**  
Represents information related to the completion of a service relative to its due date. Consists of a date delta (days), service meter delta, unit of measure, and status text.

- **Occurrence Target**  
Represents the occurrence's due criteria that consists of a date, service meter value, and unit of measure.
- **Odometer**  
Instrument used for measuring the distance traveled by the asset.
- **OMM**  
Operating and Maintenance Manual. Subset of information about safety and maintenance for each Cat asset. Provides component location, lubricant viscosity and refill capacity, planned maintenance interval schedule, and safety section.
- **Operator**  
One who operates an asset.
- **Organization Email Domain List**  
An association of zero or more email domains to an organization to facilitate identifying the organization given just a user's email address.
- **OTA**  
Over The Air.
- **Overdue Service**  
Service intervals that have passed the desired hour meter or odometer reading.
- **Ownership Status**  
Customizable status to track your ownership of an asset: Owned, Rental, Leased, and Sold.

## P

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- **Page Filters**  
Filters that filter information contained in this VisionLink page. Page filters do not appear in every page. For example, Fault Codes page filters appear as a filter option for the Health page, but they do not appear in the Manage Groups page.
- **Pending**  
VisionLink has sent a message or request for information to a device, and is waiting for a response from the device.
- **Ping**  
Request updated information, hours, and location from your asset.

- **Planned Maintenance**

Proactive approach to minimize unplanned downtime and the costs associated with breakdowns.

Planned maintenance consists of three types of services: Service Levels, Independent Intervals, and Major Components. Per OEM recommended or user configuration, services can be tracked and managed using several different ways including, machine hour based, date based, fuel consumption, power generation and distance traveled. Additionally, the steps and parts required to perform a service are available and configurable for a true mixed fleet solution.

- **Product Family**

Type of asset designation (e.g., backhoe loader, compactor, articulated truck, etc.)

- **PTO**

Power Take-Off option to power accessories from either the engine or the transmission.

- **Push Notification**

A user- or asset-specific message passed to the mobile application UI from VisionLink.

## R

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- **Read Only**

User can view VisionLink application, but cannot make changes due to restricted access.

- **Reported Time**

Either the last daily report for each day, or the last Engine On / Off report for each day per the asset's time zone (depending on device type).

- **Request Service indicator**

This is available in the **Assets** page when service has been requested on an asset.

- **Resolve**

Trouble code was addressed. This action allows a user to notify anyone interested in the instance that it has been addressed and is no longer actively being worked.

- **Running Utilization**

The time the asset was actually running versus how much time the asset was expected to be running (Runtime / Expected Runtime as a percentage).

- **Runtime**

The number of hours over a given time period the asset's engine was on. This is the difference between the Lifetime Runtime Meter values reported on different days.

- **Runtime Average Daily**

Number of hours an asset performed on a daily measure.

# S

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- **S/N**  
Serial Number.
- **S·O·S<sup>SM</sup>**  
Cat Scheduled Oil Sampling.
- **Scheduled Report**  
A report delivered on a user-defined schedule (once, daily, weekly, and monthly).
- **Segment**  
In Asset Operation and Asset Details Asset Operation, when the date is set for a single day, line segments are displaying data for each status change. Example: Asset is in idle or asset is working.
- **Service**  
Perform routine planned maintenance or repair work on an asset.
- **Service Level**  
Cumulative service intervals, which are interdependent and occur on a recurring schedule. Also known as Planned Maintenance or Preventative Maintenance (PM).
- **Service Request**  
VisionLink offers a view of service requests at the fleet and asset level for customers in the **Service Requests** page.
- **Service Status**  
An occurrence's Service Status that consists of Overdue, Upcoming, or Completed.
- **Servicing Dealer**  
Dealer who has performed service on an asset.
- **Shared Asset**  
Asset that is rented to other organizations.
- **Shop Parts**  
This option indicates you are not committing to immediate parts purchases. See also **Buy Parts**.
- **Single Asset Multiple Days**  
Single asset is displaying data for more than one day in Asset Details Asset Operation page.
- **Single Asset Single Day**  
Single asset is displaying data for a single day in Asset Details Asset Operation page.

- **SIS™**  
Cat Service Information System. A valid SIS license allows the user to access this information.
- **SMCS**  
Service Management Control System.
- **Source**  
Source is where an asset's telematics data is originating from. For many Caterpillar assets, the source is Caterpillar and our devices; for many assets from other OEMs, the source is those OEMs.
- **SPN**  
J1939 Suspect Parameter Number. This is how the J1939 protocol defines the fault code.
- **Standard User**  
Regular user who performs the organization's day-to-day operations in VisionLink.
- **Subscribing Dealer**  
Dealer who has created a telematics subscription for an asset.
- **Subscription**  
Customer subscribes and pays for telematics data flowing into our tool.
- **Subscription Status**  
Status of the asset's subscription and connectivity. The only entries are Connected – Subscribed with a green icon and Connected – Not Subscribed with a grayed-out icon.

## T

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- **Task**  
The **Tasks** page gives you an overview of all tasks assigned in your organization and those assigned to you. Some of the actions available to take in the page include applying filters and performing actions on individual tasks; adding a standalone task; downloading summary data.
- **Total**  
The **Total** row at the end of the **Asset Fuel Single Asset Report**, **Asset Usage Summary Report**, **Fleet Fuel Report**, and **Fleet Utilization Report** shows the cumulative average value for the **Idle Fuel Burn Rate**, **Working Fuel Burn Rate**, **Total Fuel Burn Rate**, and **Mileage** columns.
- **Total Fuel Burned**  
The total volume of fuel burned during a period of time for a given asset.

- **Total Power Generation**

Just like hours, fuel, or odometer, Total Power Generation is leverage to better understand the usage of a Gen Set for Oil and gas.

- **Trigger Event**

This is when the conditions for a Notification Configuration have been met and a notification has been generated for that specific event that met the criteria.

## U

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- **Undo Dismiss**

Undoing a dismissed event will put it back in an Active State.

- **Undo Resolve**

Undoing a resolved event will put it back in an Active state for all users in the organization.

## V

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- **Variance Days, Variance Value, and Variance Unit**

Three columns in the exported Planned Maintenance Summary data from the Planned Maintenance Summary and Planned Maintenance Asset Details pages help fleet managers plan service work based on day and meter variances/deltas rather than projected dates.

## W

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- **WCI**

Warning Category Indicator. This is the level of severity of a fault code. Once we have a fault code and the FMI, this will tell you the severity of the incident. This goes from level 1 (least severity) to level 3 (highest severity).

- **Work Definition**

To properly define when the asset is working, the work definition identifies when the asset is running and when the asset is idling. Work definitions can be unique for each

asset, and can be created for devices based on either machine-sourced input or digital switch events.

- **Working Average Daily**

The average number of hours an asset has worked over multiple days. This allows the user to identify assets that are underutilized.

- **Working Burn Rate**

The volume of fuel burned per working hour (Fuel Burned / Hours).

- **Working Fuel Burned**

The volume of fuel burned during Working Time. Units are in gallons or liters.

- **Working Hours**

The hours an asset has worked.

- **Working Time**

The number of hours over a given time period for which an asset is running and considered to be doing work. Work is defined according to Work Definition. Working Time is the difference between Running Time and Idle Time.

- **Working Time %**

Asset's working runtime displayed as percentage.