



CASCADIA[®]

SAFETY AND CONNECTIVITY SYSTEMS



DAIMLER TRUCK



DETROIT[®]
ASSURANCE



DETROIT[®]
CONNECT

FREIGHTLINER CASCADIA IS FULLY INTEGRATED WITH ADVANCED SAFETY AND CONNECTIVITY SYSTEMS FROM DETROIT.



THE ULTIMATE IN DRIVER SAFETY AND COMFORT ON THE ROAD

The Detroit Assurance Suite of Safety Systems delivers exceptional control, protection and driver experience. Using fused technology, the bumper-mounted radar and windshield-mounted HD camera communicate with the ABS brakes, engine and transmission in real time.

- Active Brake Assist
- Brake Hold Mode
- Adaptive Cruise Control
- Tailgate Warning
- Lane Departure Warning
- Side Guard Assist
- Video Capture
- Automatic Wipers, Headlamps and Intelligent High Beams



INCREASED RETURN ON INVESTMENT, MORE UPTIME AND ULTRA-SAFE OPERATIONS

Detroit Connect gives you the power to make quicker decisions, simplify maintenance and take your business further. Real-time insights help you to improve uptime, reduce maintenance costs and optimise vehicle and driver performance.

- Remote Updates
- Analytics
- Video Capture
- Virtual Technician
- Fleet Manager Portal



ACTIVE BRAKE ASSIST

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✓ Full emergency braking on moving, stopped and stationary traffic and pedestrians

✓ Helps reduce the number of front-end collisions

In many cases, the system will recognise potentially hazardous situations faster than a driver. Active Brake Assist 5.0 uses a combination of the windshield-mounted camera and front radar to monitor the environment ahead and, if necessary, sound a warning and apply the brakes. The fusion between the radar and camera allows for greater object recognition, which enhances the braking capabilities.

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BRAKE HOLD MODE

✓ The brakes hold indefinitely without the need for the driver to apply pressure to the brake pedal

✓ Helps reduce driver fatigue and increase driver comfort

Brake Hold Mode is designed to improve driver comfort and safety by allowing them to remove their foot from the brake while waiting for extended periods – for example, when at a job site or in heavy traffic.

A driver engages Brake Hold Mode by pressing firmly down on the brake once the truck is at a complete stop; this action then applies a consistent pressure to the brake until the driver deactivates it.

How Active Brake Assist Works

ABA 5.0 Dash Displays

1.

INITIAL WARNING/NO BRAKING

Simultaneous visual dash alert and pulsating warning tone.

2.

WARNING/PARTIAL BRAKING

No response to the visual/audio warning triggers a visual dash alert with a solid warning tone and partial braking.

3.

WARNING/FULL BRAKING

If there is still no driver input, the system will trigger a visual dash alert and solid warning tone, and engage in full braking.

4.

ABA FULL BRAKING EVENT FINISHED, BRAKES ON HOLD

At this point, the full braking event is finished, with the truck at a complete stop and the brakes being held.



ADAPTIVE CRUISE CONTROL

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✓ Automatically follows vehicle in front to 0km/h in stop-and-go traffic

✓ Helps reduce driver fatigue and front-end collisions

Adaptive Cruise Control utilises a fused radar and front-facing camera to automatically adjust the cruising speed to maintain a safe following distance from other vehicles. This can be adjusted to between 2.4 and 3.6 seconds through the driver display.



TAILGATE WARNING

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✓ Assists with maintaining safe following distance

✓ Helps reduce number of front-end collisions by keeping the driver alert

When Adaptive Cruise Control isn't engaged, Tailgate Warning will issue a visual and audio warning if the driver follows the vehicle in front too closely for 10 seconds or longer. Tailgate Warning will activate above 40km/h. The distance at which Tailgate Warning will trigger follows a sliding scale between 1.8 and 2.7 seconds, based on the driver's speed.



LANE DEPARTURE WARNING

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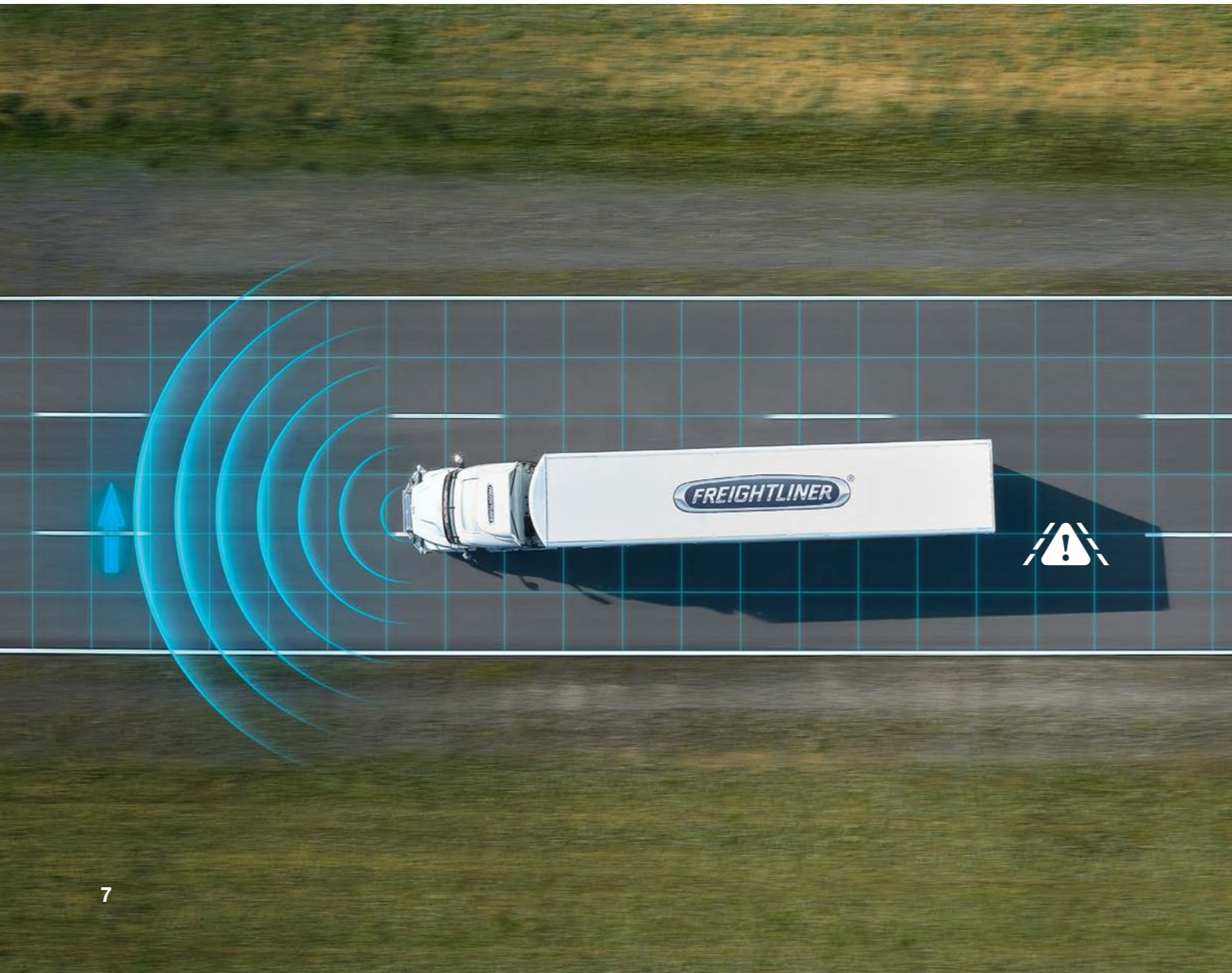


✓ Identifies unintentional lane changes being performed

✓ Keeps the driver alert and helps to improve traffic safety by reducing the number of lane-change and side collisions

Lane Departure Warning tracks the truck's position by detecting reflective paint and raised reflectors on the road. Lane Departure Warning will auto-enable when the vehicle is travelling above 60km/h and when visibility and road conditions suit.

In certain environments (e.g. winding roads or construction zones), the driver may choose to temporarily switch off Lane Departure Warning through a dash switch.



SIDE GUARD ASSIST

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✓ Assists with navigating through traffic

✓ Keeps the driver alert and helps to improve traffic safety by reducing the number of lane-change and side collisions

Side Guard Assist utilises a radar mounted on the left side of the vehicle to monitor the blind spot. Any time an object enters the blind spot, the driver receives an amber warning symbol on the dash and left-hand A-pillar.

If the vehicle begins to move into the path of the object, the driver receives a red flashing light and audible alert. The system will also monitor the trailer to determine if any objects are in the swept path of any left-hand turns.



VIDEO CAPTURE

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- ✓ Safety events captured on video and downloadable through Detroit Connect
- ✓ Eliminates the cost to fit an aftermarket dash cam and its associated subscription costs

Increases chain of responsibility compliance and driver training opportunities. In conjunction with Active Brake Assist, Lane Departure Warning and Intelligent High Beam, the multipurpose camera is also used as a forward-facing dash camera. When a prescribed safety event or manual request occurs, the system captures a 30-second snippet of the event – 15 seconds before and 15 seconds after. The fleet manager may view or download the clips for up to 30 days.

AUTOMATIC WIPERS, HEADLAMPS AND INTELLIGENT HIGH BEAM

- ✓ Automatically engages the wipers, low beam headlights and high beam headlights as required
- ✓ Helps increase driver comfort and reduce driver fatigue

Wipers and headlamps automatically turn on to match weather and lighting conditions. The multipurpose camera used for Lane Departure Warning and Active Brake Assist also functions to monitor vehicles in front, enabling the Intelligent High Beam function. When set to the appropriate mode, the vehicle will automatically switch between high beam and low beam as appropriate.



REMOTE UPDATES

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✓ Modify engine parameters with over-the-air functionality and remote vehicle updates

✓ Help reduce downtime and maximise flexibility

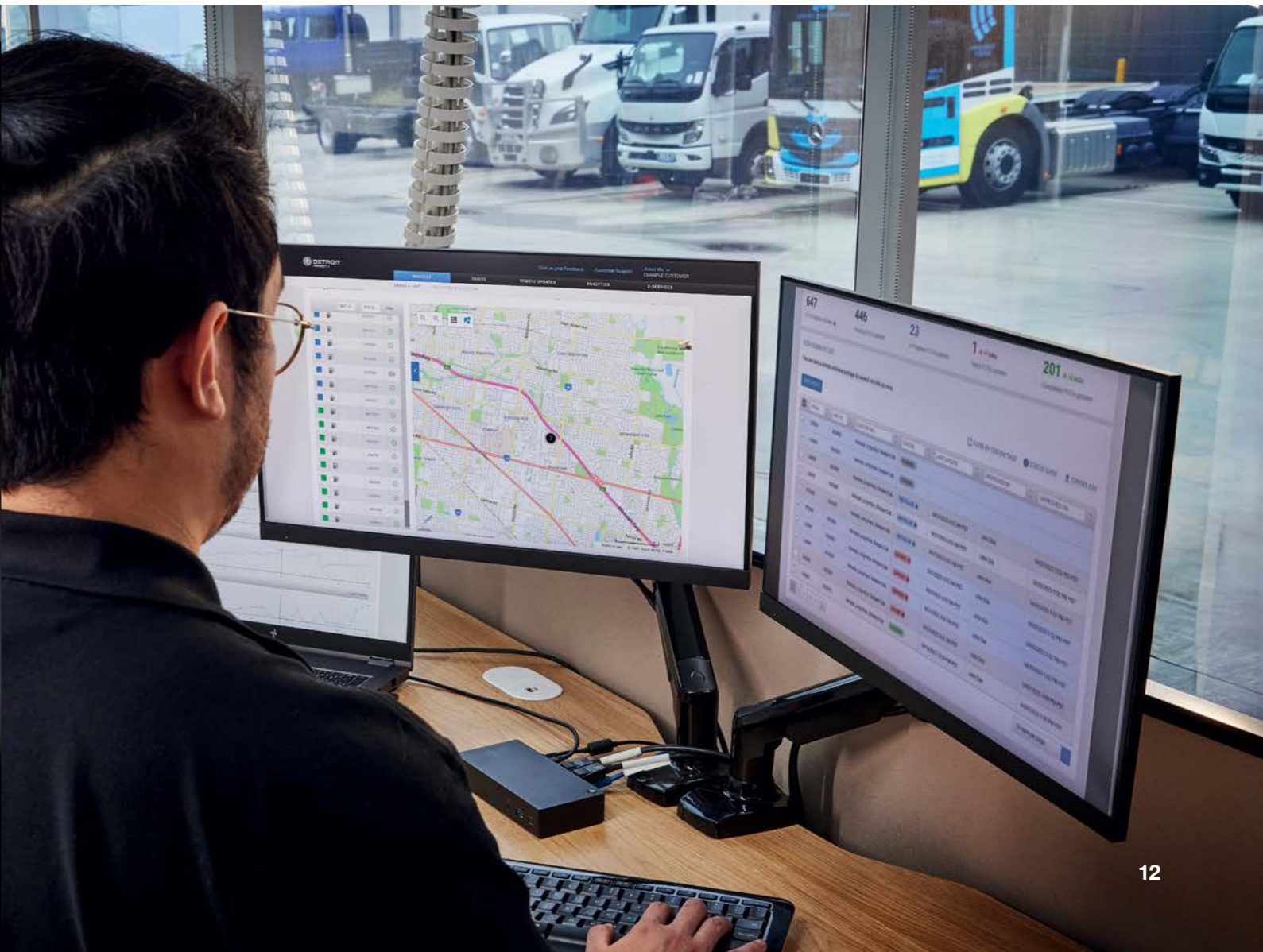
Detroit Connect Remote Updates uses secure over-the-air programming to update fleet powertrain software. In most cases, drivers no longer need to bring their vehicle into a dealership. With the Detroit Connect platform, you can modify engine parameters for your entire fleet all at the same time.

ANALYTICS

✓ Data-driven insights from experts at Daimler Truck in a user-friendly format

✓ Improve speed and accuracy of decision making to help reduce downtime

Detroit Connect Analytics collects data from your Detroit Assurance suite of safety systems and converts it into an easy-to-understand format. Get a comprehensive overview of all safety events across your fleet or drill down into a particular vehicle or event. You can also view a ranked list of your vehicles, along with a safety score based on your fleet's safety priorities. Data is also gathered from video capture (see page 9) to let fleet managers know what to focus on to improve driver behaviour.



VIRTUAL TECHNICIAN

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✓ Receive fault codes and actionable prompts while on the go

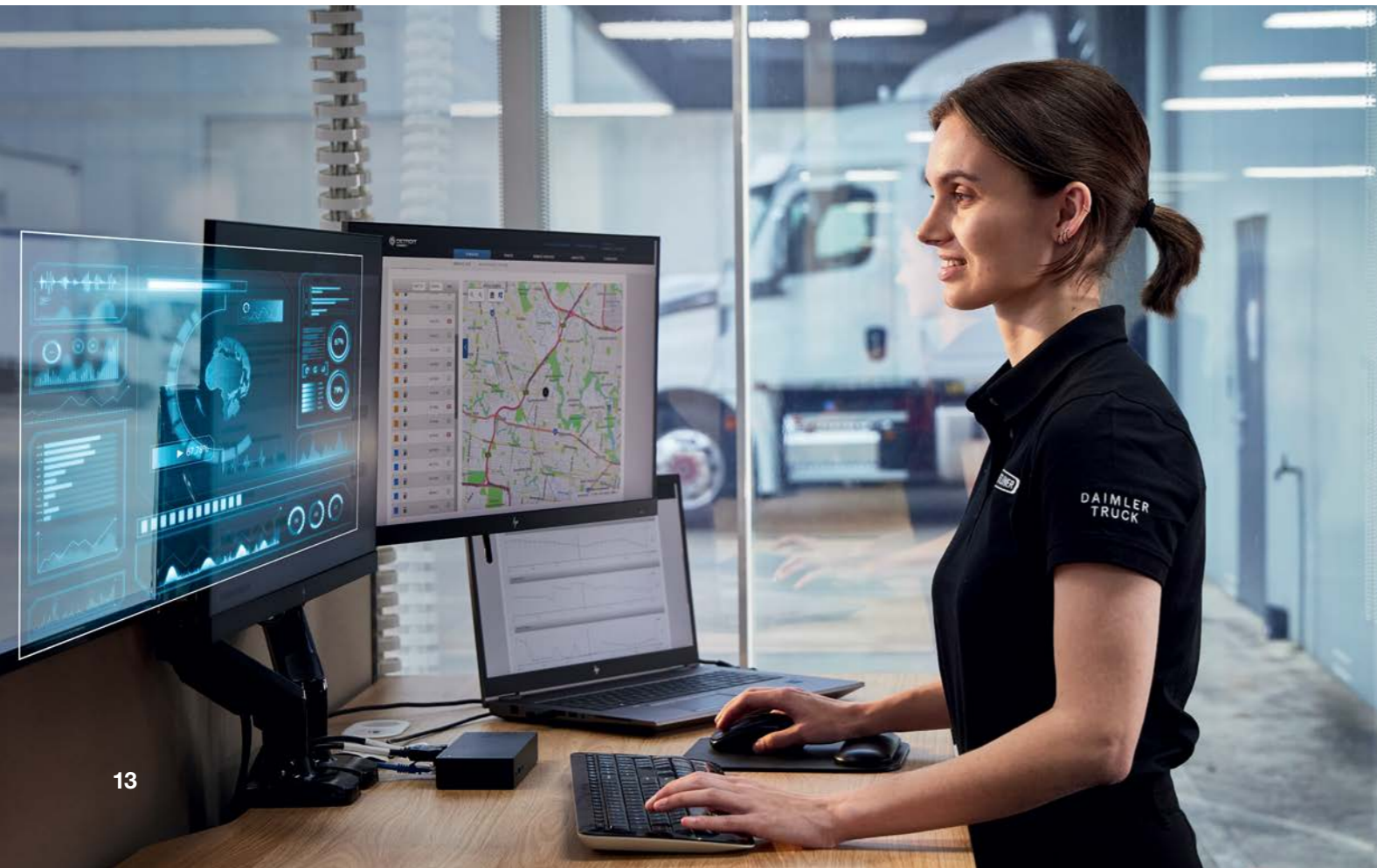
✓ Discover and mitigate issues before they cause downtime

Detroit Connect Virtual Technician notifies fleet and owner operators within minutes if their vehicle experiences a fault.

Notifications include:

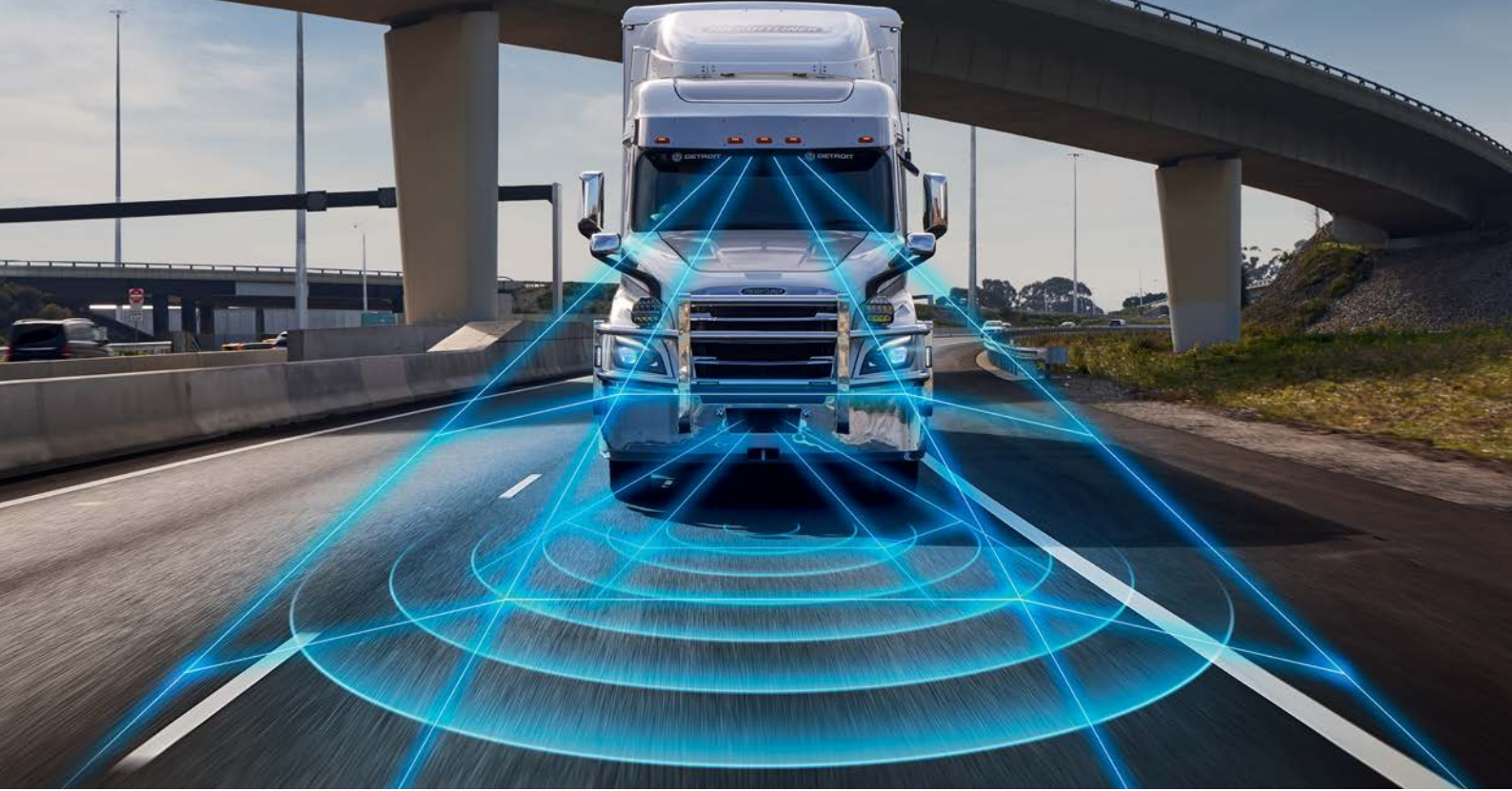
- The severity of the fault.
- When and where the fault occurred.
- How to best proceed.

Using the information provided by these notifications, you can reduce time spent on unnecessary maintenance and make better service decisions for your fleet. Additionally, with the Detroit Connect portal, you'll be able to view the health of your overall fleet, drill down into specific faults or even access each vehicle's fault history.





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