GPS-based Tracking System for Haul Trucks

The recently released Carlson TruckPro 2.0 is a GPS-based assignment and tracking system for haul trucks. It helps optimise operations by enabling dispatch operators to know haul truck locations and material types during transit, even in low-visibility conditions.

TruckPro assists the mine with material management, a critical part of its production workflow, and is designed to aid the shift foreman or engineer in calculating material types and tonnages hauled for the shift. The heavy equipment operator can get instant feedback on their performance statistics, giving them goals in which to better perform.

Carlson TruckPro 2.0 has been completely rebuilt on the same platform as Carlson's Mining Grade software, which is used in its MineRover products. This offers interoperability, which translates into ease of use and seamless workflow, as well as the same file structure between applications. In addition, TruckPro, adheres to Carlson's Open Positioning Architecture (OPA) and supports data share, multi-GNSS receivers. TruckPro is scalable to accommodate varied infrastructure.

By always knowing the truck locations with TruckPro, the dispatcher can more accurately assign trucks to digging equipment. This means reduced idle times and elimination of excessive movement, with the result of less maintenance and cost.

According to Carlson, the benefits in utilising Carlson TruckPro include improved blending and stockpile management, better roads for hauling based on road speed analysis, and the ability to plan better due to accurate tracking.