



Productivity

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Missouri Department of Transportation

Superload Connect for Missouri Video



Route Surveys for Superload Moves in Missouri

Description

The Superload Connect is an updated and refined version of the online user interface and intelligent system that streamlines safe oversize and overweight load routing in Missouri. For the first time, Motor Carrier Services can mine specific oversized and overweight permit data such as quantity of permits issued that include a specific structure in the route. For years, MCS had received requests for the information from MoDOT divisions – including Bridge, Traffic and Maintenance – as well as district personnel, yet had no way to draw out the information.

Benefit

With the Superload Connect, MoDOT's permitting system logic now considers ramps as roadways. This allows MCS to route trucks up and over ramps where a width, weight or height restriction exists on the main line. Before, the system sent loads over long routes to avoid the restrictions. Especially during construction season, routes could zig-zag over many less-desirable and long routes hundreds of miles longer than a straight trip. Often, customers who thought they might be able to use the ramps asked agents to manually evaluate and override the selected route. Now, if the mainline at an interchange is restricted for any reason, the system automatically considers ramps as a bypass. This saves customers time, fuel and vehicle wear, MoDOT time and effort, and results in favorable environmental impact.

Safety is improved with the ability for MCS to blast a message through email to all carriers whose OSOW route includes a highway, bridge or section rendered impassable since the permit was issued.

The live-load analysis function calculates axle-load impacts of individual truck and load configurations upon highways and structures. Prior to live-load analysis, requests were digitally compared to detailed charts to determine if and how a permit could be safely routed. Any load that did not fall within the parameters of the charts was individually studied by Bridge division engineers. MoDOT is not the only beneficiary of simplified work. The prior OSOW permitting system required agents and customers to use a software plug-in that had become problematic. Superload Connect allows customers to conduct business with MCS from any location with cellular or wi-fi service.

Materials and Labor

The total cost of materials was \$1.8 million for the software enterprise license, with a yearly reoccurring cost of \$350,000 to \$400,000. The total amount of labor hours was 2,800.

For More Information Contact

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Additional information, photos or videos can be seen by accessing Innovations Challenge SharePoint page at: <http://sp/sites/tp/planpol/SitePages/InnovationHome.aspx>