

Customer In Mind

Given that the conductor was truly the customer in mind, the product development was centered around the conductor's best interest of safety by developing a safer driving environment through enhancements offered by IoT. These enhancements were incorporated into the conductor's environment in a minimal manner to ensure the addition of IoT would promote and improve the conductor's ability to safely operate the vehicle as opposed to distracting the conductor with sensory overload. To best communicate essential information and recommendations such as objects in the train's path, upcoming crossing, speed, horn use, and wheel slippage, the GUI of IoT was developed with ease of use in mind.

Upon startup, the icons are all blank and change color based on severity, where yellow signifies a warning, orange a higher priority warning with a recommended action, and red the highest severity warning along with recommendation. The GUI is simple for a conductor to follow through alerts by color prompt made to catch the attention of the conductor, which after a quick glance can recognize which icon is prompting a warning, the severity, and a recommendation the conductor can follow if the warning is severe enough. The use of IoT is completely remote, with no need for the conductor to interact with or enter any information while in use besides login entry prior to startup. Thus, IoT requires no more than a glance to decipher warnings, allowing the conductor to effectively run the vehicle as before with the added benefits of IoT.