



Cash and Valuables in Transit

Introduction

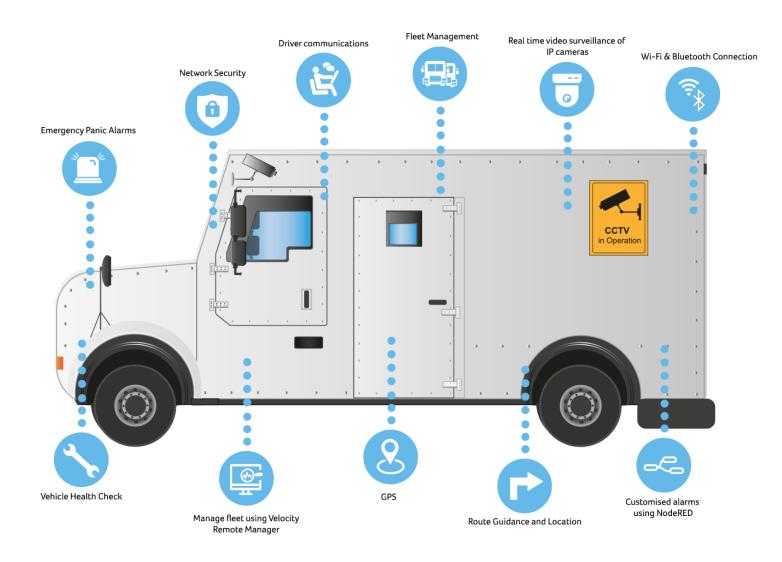
Cash in society has been identified as a critical socio-economic requirement. This is backed by the UK government and even in the most advanced countries for digital finance such as Sweden there has been a rethink in policy with ATM machines now increasing in numbers. Some studies prior to COVID have shown that although the physical amount of cash in society had reduced the amount of cash transactions had increased. Cash is and will remain an indispensable part of our lives. Cash and Valuables in transit (CVIT) provides organisations that manage large cash payments a way of transporting cash safely typically in semi-armoured or armoured vehicles and with a minimum set of personnel in order to safeguard large volume of cash being collected.

However, challenges are faced every day by CVIT organisations that fight back against brazen CVIT thieves. CVIT heists are organised criminal operations, executed with military-style planning and precision. Over the past 30 years there have been many different types of attacks on CVIT service providers around the world. In some cases, these attacks lead to severe violence which not only puts the CVIT crew and public bystanders' lives at risk but also leads to substantial collateral damage.

Whilst advances are made in safety and security mechanisms to protect large cash and valuables transported daily, there is little, if any, legislation setting minimum standards for technology to be installed in vehicles or to compel CVIT companies to use the technology.

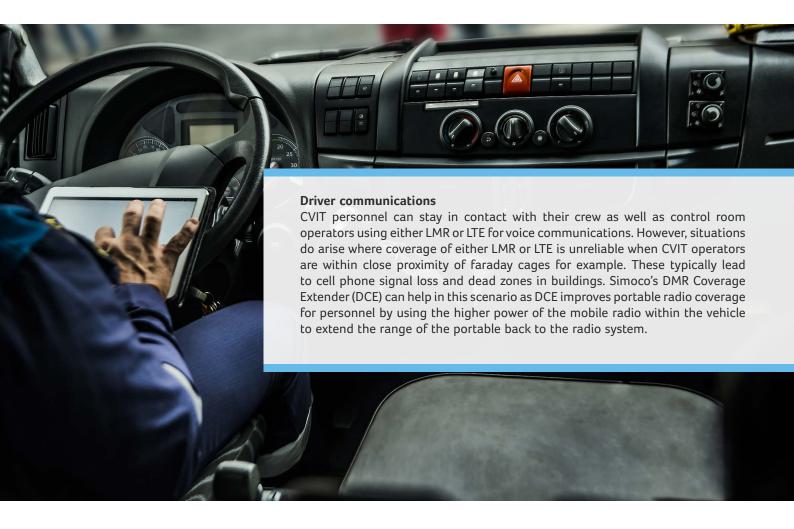
Velocity a unique solution for the Cash and Valuables in Transit industry

Velocity provides CVIT operators an intelligent communications solution providing complete visibility of the entire cash and valuables movement process. Velocity is enriched with a whole range of features from driver communications using either LMR or LTE for voice communications in order to stay in contact with control room operators. Using devices such as tablets in conjunction with the Velocity device enables perfect planning of routes and guidance. Surveillance cameras on CVIT vehicles have become a necessity considering the challenges CVIT operators face every day. Utilisation of broadband networks in Velocity enables control room operators to pick up real time video streams. Customised workflows and creation of alarms based on a number of conditions provides additional intelligence for your operational cash and valuables in transit processes.





Wireless solutions built to drive efficiency



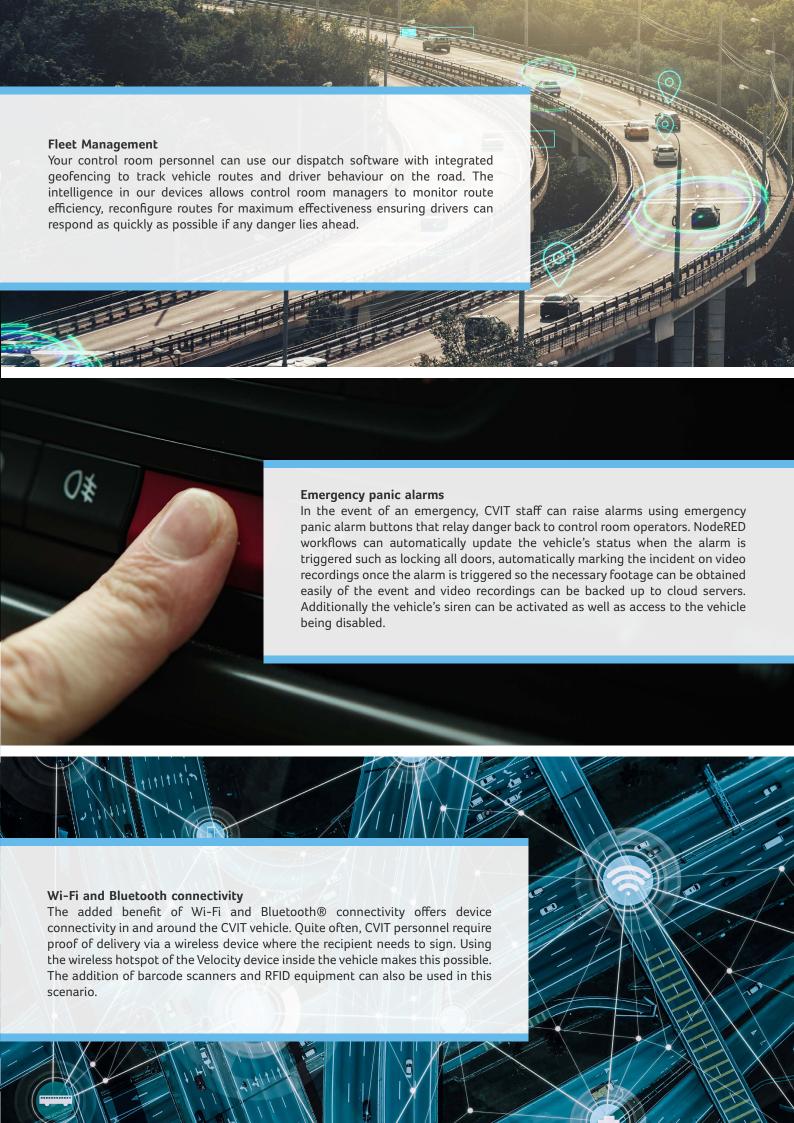
Customised alarms using NodeRED

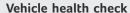
Creating customised alarms and workflows in NodeRED has never been easier. The below outlines some useful use case scenarios:

- ► GPS feed where vehicles are located.
- A sensor that reports whenever a door is opened or closed.
- Control rooms have the ability to react to alarms.
- ▶ If the vehicle's GPS is reported to be in the depot, an alarm is not raised as the vehicle is in a trusted location.
- ▶ If the vehicle is on route to a customer location, the door is not allowed to open whilst the vehicle is in motion. If the door is opened whilst the vehicle is travelling, an alarm is triggered to the control room.
- ▶ If a vehicle is idle for an unusual period of time, an alarm is triggered to the control room.
- ▶ When the vehicle arrives at a customer site, doors are allowed to stay open for a set period of time. If the doors are left open for a greater period of time, an alarm can be triggered to the control room.
- ▶ Whilst the vehicle is travelling, and the vehicle veers off route, an alarm can be triggered to the control room.

NodeRED provides the ability to tailor workflows that meet the requirements of your operations.







The vehicle's health for CVIT operators holds huge importance partly due to the volume of cash and valuables that could be stranded in the event of the vehicle breaking down. Velocity can integrate into vehicle electronics to check for early warnings such as service lights, high temperature warnings, oil lights and much more. Preventative maintenance can be deployed on a number of vehicles which help operational staff identify when vehicles require servicing. Additionally alerts can be sent to CVIT back office staff when servicing the vehicle's hydraulics is required. The hydraulics on a CVIT vehicle is put on pressure numerous times with heavy loads of cash or coins lifted time and again. If the vehicle's hydraulics requires servicing after a set number of lifts, an alert can be sent in order for the hydraulics to be serviced.



Real time video surveillance by use of IP cameras

Our solutions rely on constant mobile connectivity which makes possible to monitor security from a remote location and alert authorities immediately when problems arise. Typical standard procedures in CVIT organisations require operational cameras to commence recording before the vehicle is released for clearance on leaving either at the depot or customer premises. Utilisation of surveillance cameras in conjunction with Velocity ensures that cameras are running before the vehicle is cleared for moving.

If a situation arises whereby the camera is malfunctioning or is non-operational, NodeRED can be configured to raise alarms back to operational staff and subsequently route guidance will fail to work. The use of RFID authentication can be used to check the presence and identity of the CVIT crew and various conditions can be outlaid allowing the dispatch of the vehicle only if those conditions have been met.

Network Security

CVIT operators require policies in mitigating networking risks to protect sensitive information. Velocity is designed with security in mind and includes the use of advanced security protocols such as virtual private networks (VPN). Other security features include setting up Demilitarized Zones (DMZ), MAC filtering, IP filtering, port filtering and port forwarding provide a standards-based security solution for connecting and managing remote assets, enabling customers to guard against malicious access to sensitive data.



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