



PROTELION

Use Cases

Highly Secure Communication for the Transport Industry

Digitalization has become common among transportation and logistics companies. Cyber attacks occur every day in this sector. Malicious users attempt to steal valuable assets stored in networks, that are crucial for evolving transportation and logistics because they provide more efficient customer services. Logistics companies mandatorily need secure remote access not only to internal databases, but also via a mobile data network to their vehicles for location tracking and predictive and preventive maintenance analysis of the vehicles.

Duties and As-Is Situation for the Transport Industry

Logistics and transport companies strive to transport goods from production sites or warehouses to customers on time. To achieve this, the companies must be permanently informed about the respective whereabouts and condition of the vehicles

Hazardous goods and valuables transports are monitored even more closely and constantly exchange sensitive vehicle data and current location information with headquarters

Trucks, trains, ships or airplanes are constantly in operation all over the world to satisfy market demands and not to interrupt supply chains. To ensure this, an undisturbed global administration process of logistics companies, port authorities, customs, etc. is required

In a highly competitive global market, sensitive data and information in written or verbal form is constantly being passed from one desk to the next, both internally and externally, and that in an insufficiently protected manner

Project Specification

Logistics companies and vendors of specially secured vehicles and services for transporting cash, gold and other precious cargo require secure data transmission with low latency to protect the vehicles and their personnel

Software updates and security patches on vehicles, IT infrastructure and endpoint devices must be possible to be installed any time remotely and securely

In case of connection interruptions, switching mobile cells or changing telecom provider, the secured connection should not have to be re-established each time

Continuously secure vehicle monitoring (GPS location tracking) and telemetry data access via a mobile networks need to be established

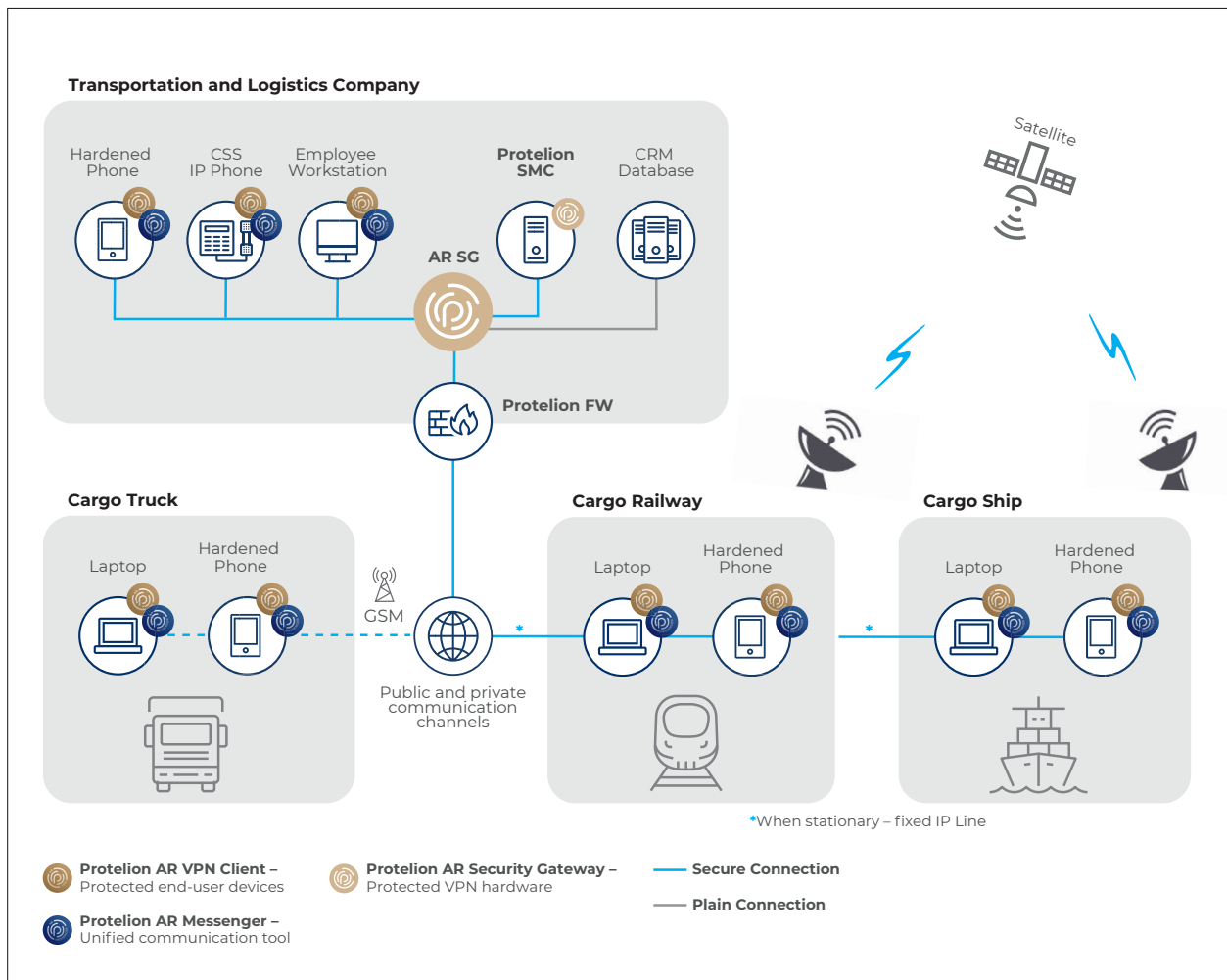
Project Implementation

1 With the always-on functionality of the Protelion VPN Technology, it is possible to connect to the vehicles securely via a mobile data network at all time

2 The secure exchange of telemetry data via the protected VPN network by Protelion Security Solutions prevents the intentional modification and manipulation of this sensitive data. As a result, attempted attacks that lead to decommissioning, incorrect orders or even destination changes can be prevented

3 With the implementation of Protelion Security Solutions it is now possible to ensure protected location tracking even if GPS localization is no longer available, as in the case of long tunnels. The complete tracking and monitoring of the vehicles increase the transport security of the goods, which in turn is of central importance for cash-in-transit companies

Scheme for the Transport Industry



Protelion Features

Easy Use and Integration

Easy to use and seamless integration of Protelion Security Solutions within existing legacy networks which still use old legacy devices in their systems

Always-On

The Protelion VPN Technology design of a non-session connectivity, provides a secure “always-on” connection which can be maintained even when poor and unstable communication channels are used

Endpoint Protection

All-in-one solution to secure endpoint devices from cyber threats like zero-day exploits, unknown malware and internal or external threats and provides stability and availability to the logistic networks

Operational Security

Protelion VPN Technology enables a trusted and unaltered response in case of vehicle malfunction or failure in real time, paired with a permanent vehicle tracking even when no GPS signal is available