



PROTELION

Use Cases

Highly Secure Communication for Hospitals and Ambulances

Healthcare operators face multiple cybersecurity challenges. Among them is the need to improve their cyber defense capabilities without causing costly disruption to healthcare service delivery. Protelion provides flexible solutions, which improve security without impeding clinicians' easy, reliable access to critical systems and patients' data. Protelion Security Solutions seamlessly integrate into existing legacy IT networks and infrastructure to cost-effectively deliver robust cybersecurity across the entire hospital organization. Protelion Security Solutions have been successfully deployed in both, large scale and smaller healthcare environments.

Duties and As-Is Situation for Hospitals and Ambulances

Large and regional hospitals have to provide comprehensive patient care by means of central and some smaller, more remote locations. In addition to providing general care for the region, the main hospital often has to function as well as a clinical teaching hospital for medical training of physicians, nurses and emergency services and as a regional medical center of excellence

In general, existing IT networks in hospitals do not meet the most important security requirements for maintaining data privacy or the protection of medical records and patient data

Coordination of ambulance services, with more than 1000 vehicles, serving multiple hospitals in a city and a region with a population of more than 5 million people

Project Specification

The hospitals' IT infrastructure is neither able to prevent, identify nor analyze sophisticated cyber attacks and need to overcome the associated vulnerabilities

Mobile, or in office practicing physicians and emergency service personnel on duty, need to be equipped with secure remote access to patient records and critical medical systems

The ability to securely connect a variety of different hospital IT networks to ambulance teams and control centers, while guaranteeing that transmitted information and data are unaltered, must be established

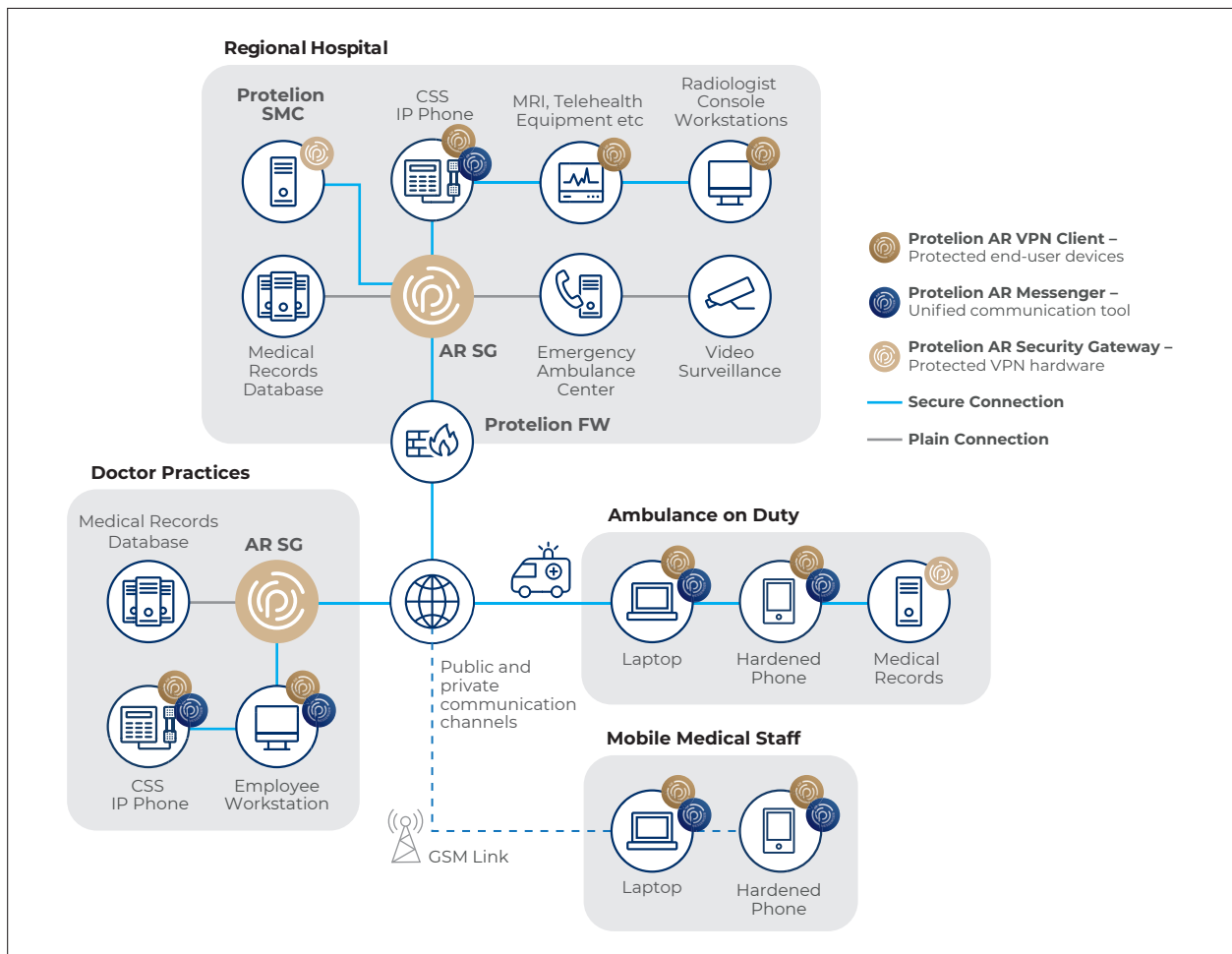
Project Implementation

1 The implementation of Protelion Security Solutions in the customer's network ensures secure access, in particular remote access, secure processing and storage of all data and brings the existing infrastructure into compliance with regulatory requirements

2 The deployed Security Solutions from Protelion enable multiple and discrete IT-environments of different hospitals and ambulance control rooms to be securely interconnected and protect therefore critical data from eavesdropping, theft and alteration

3 The Protelion Security Solutions have been deployed on customer's endpoint devices, enabling securely encrypted voice and video calls, chat, email and file exchange over unsecure channels between ambulance staff, control centers and hospitals

Scheme for Hospitals and Ambulances



Protelion Features

Comprehensive Protection

Protelion Security Solutions offer comprehensive protection against a wide range of cyber threats, using advanced technologies to detect and respond in real-time and minimizing thereby the impact of cyber attacks

Customizable Solutions

High flexibility, interoperability and scalability of the Protelion Security Technology make it easy for each individual customer to create an optimal solution on top of its existing IT infrastructure

Endpoint Protection

All-in-one solution to secure endpoint devices from zero day exploits, unknown malware, ransomware, DDoS attacks and internal or external threats such as data theft, loss and alteration

Operation Security

Secured and efficient ambulance services. Guaranteed integrity, security and privacy for medical and patient data while complying with today's data protection regulations