



PROTELION

Use Cases

# Highly Secure Communication for Banks

Information security is a critical aspect for banks as they process and store sensitive data of their customers, such as financial data, personal data, interbank communication, payment and other sensitive data. Any leakage of sensitive information can result in financial losses in the form of compensation payments to customers for the leakage and other economic consequences, negatively impacting the bank's reputation, which in turn is the most important asset of any bank. Customers withdraw and the banks risk losing business. Information protection enables banks to prevent data leaks and thus preserve their reputation.

## Duties and As-Is Situation for Banks

The nature of banking systems creates an immense volume of crucial financial transaction data between different branches, departments, partner banks or data centers

Common or private banking advisers often contact their clients over open unsecure communication devices like IP-Phones or Mobile Phones, discussing and exchanging sensitive information over these channels

Insufficiently or poorly protected transfer of financial transactions to and from ATMs, stock exchange, international payments (Swift), customer bank accounts etc.

Banking business is still a big part personal business, causing hundreds or thousands of clients to enter inadequately secured bank buildings, meeting locations, vaults or to check their safe deposit boxes

## Project Specification

Extensive data and communication exchange demands strong cryptographic protection for voice respectively video calls, chats and corporate written correspondence

Build up a reliable data transfer between data centers, computing centrals, ATM's, stock exchange and distributed branches, using highly protected and encrypted communication

Due to the fact, that working locations of bank employees are often at the customer's site, a secure and protected access to the central database and servers has to be provided

The extensive use of computers, tablets and mobile devices demand a complete endpoint protection, real-time threat monitoring and prevention of hacker attacks for these devices

# Project Implementation

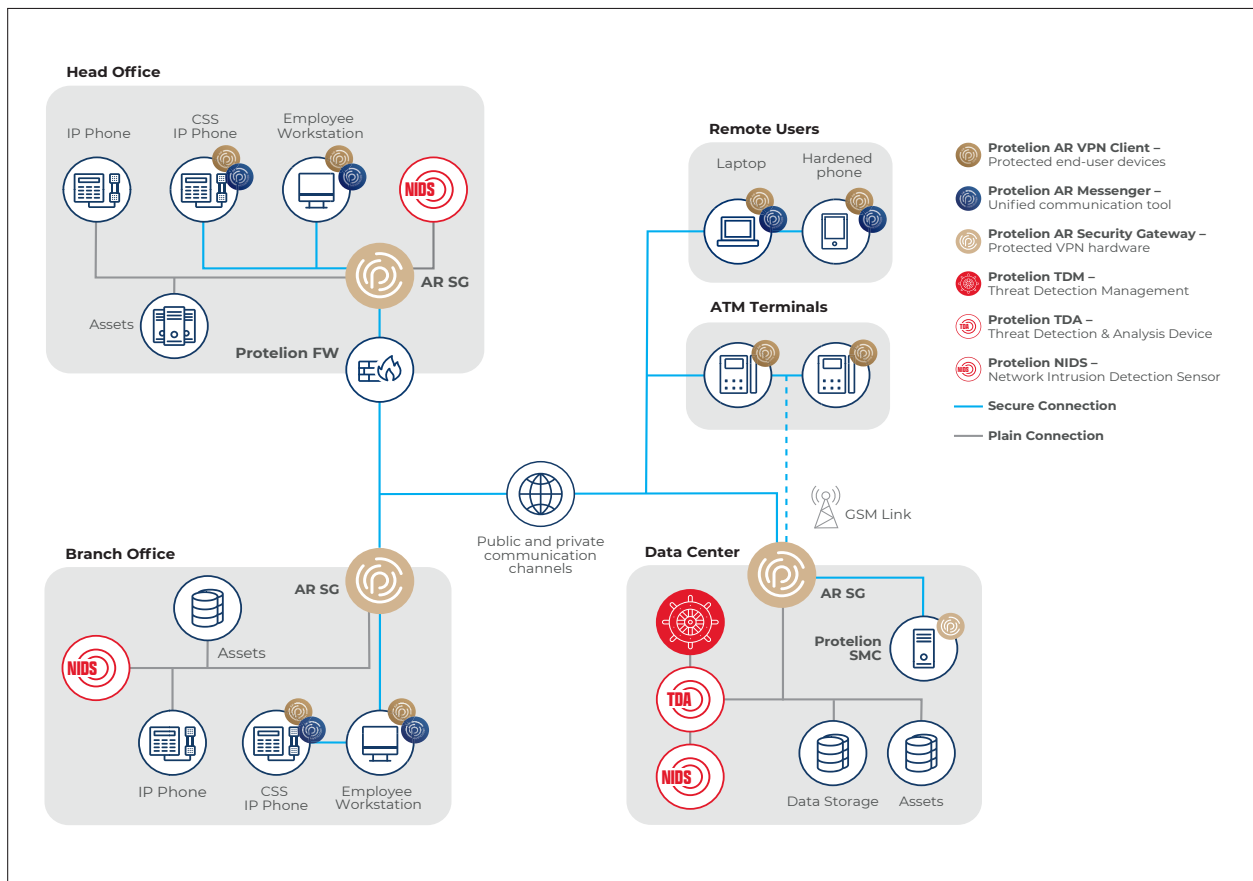
1 The TDR System provides full visibility of suspicious activities within the network infrastructure and increases the security level of the bank's information systems, data centers, user workstations, ATMs and network equipment

2 All communication is encrypted and can be sent over common public channels. The solution provides highest protection against eavesdropping and ensures confidentiality and integrity of data transferred between data centers and different branches of the bank

3 Endpoint devices are protected against various types of cyber threats such as malware, zero-day exploits, fileless attacks and malicious user behavior

4 The Protelion Security Solutions allow banks to detect security incidents and potential threats early, minimizing system downtime, which can have a significant impact on the bank's availability, revenue and reputation

## Scheme for Banks



## Protelion Features

### Protelion VPN Communication Technology

Interoperability of Protelion VPN Communication Technology enables the creation of hierarchical systems and the establishment of secure encrypted communication on top of the existing IT infrastructure

### Always-On

Protelion VPN Communication Technology uses the principle of non-session connectivity, which is an important feature when connecting via poor and unstable communication channels. This feature enables transmission of encrypted payload with the first IP packet sent or received

### Certified AES Algorithm

The implemented and certified Protelion encryption algorithm is designed to protect highly sensitive and critical data and voice communication. Its security and performance features meet the customer's expectations to the highest degree

### Endpoint Protection

All-in-one solution to secure endpoint devices from zero-day exploits, unknown malware and internal or external threats. Protelion Endpoint Protection provides high-level security for desktop computers, laptops and Windows tablets