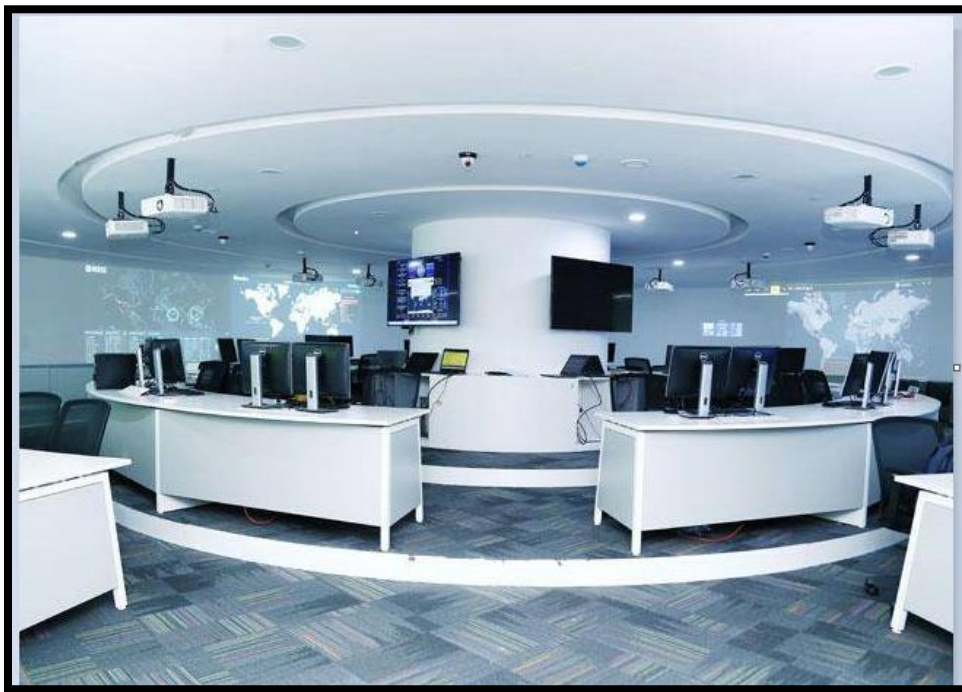


# Case Study

## CRPF has strengthened their IT Security by deploying AuthShield Multifactor Authentication

*The Central Reserve Police Force (CRPF) is the premier central police force of the Union of India for internal security. Originally constituted as the Crown Representative Police in 1939, it is one of the oldest Central para military forces (now termed as Central Armed Police Force)*



*“Multi-Factor Authentication Implementation for VPN using AuthShield”*

*By Innefu Labs*

# Case Study

## Introduction

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### Client Details

CRPF is the largest paramilitary organisation of the country and is actively looking after the internal security of every part of India and are even operating abroad as part of United Nations peacekeeping missions. It is performing a variety of duties ranging from VIP security to election duties, from guarding of vital installations to the counter-naxal operations.

## Key Requirements

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CRPF wanted to implement a security solution enabling employees in remote offices to securely and remotely access the organization's corporate network over VPN. Their requirements include:

- Improving the end user experience while maintaining effective levels of security
- Providing secure internal access to authorized employees
- Improving the security by minimizing the number of passwords and PINs needed
- Cost effective Two-Factor Authentication enabling global access to corporate network
- Highest Standards of security to block unauthorized access

# Case Study

## Challenge

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The organization needed a scalable and proven high-security solution without compromising on user-friendliness.

## Solution offered by Innefu

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VPN connects multiple users or servers over a single network creating point to point connections by creating an encrypted tunnel which is secure from eavesdropping and restricts the unauthorized access of the illegitimate users. Users are required to use username and password for logging onto the corporate network. But, if the account gets hacked, the transmission of organization's valuable data is at jeopardy.

**Innefu** did a direct integration of **AuthShield - Multifactor Authentication solution** with the VPN. The protocol decoding engine identifies and decodes the authentication packets and checks whether the client has to be prompted for second factor of authentication or not. In case the client has to be prompted for second factor of authentication, the second factor of authentication needs to be validated.

## AuthShield Multi-Factor Authentication Solution

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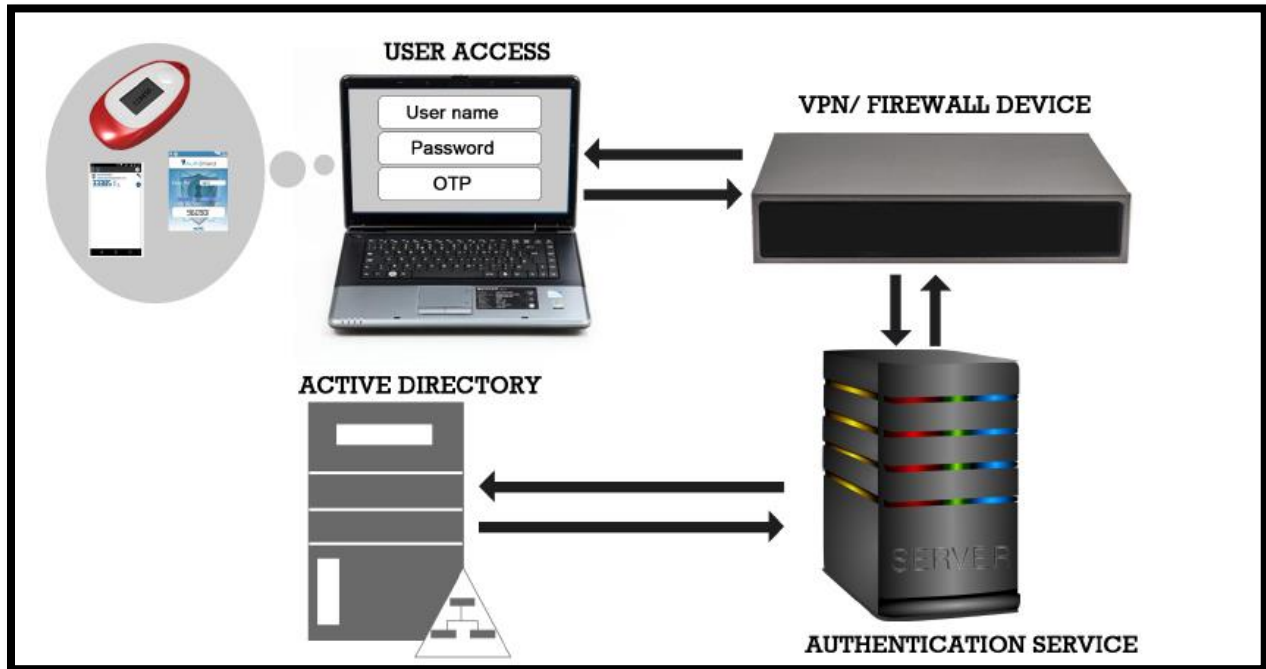
- AuthShield Hard tokens ensured the client's network could only be accessed by authorized people, while also delivering strong security.
- The offered solution seamlessly integrates with VPN without requiring users to install any additional software.
- Robust AuthShield Hard Tokens stand up to weather while ensuring that users can always access the VPN and other essential applications.

The world's leading **Authentication Security** organization

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# Case Study

## Technical Architecture



## Process

- The client logs into VPN by entering his user name, password along with One Time password.
- The user name and password are validated from Active Directory (AD) while user name and One Time Password are authenticated from the Authentication Server.
- Once validated, the client will then log into the VPN.

# Case Study

## Solution offered by other vendors

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All other multifactor authentication vendors have no solution for applications which does not have an inbuilt mechanism for providing MFA. In their cases, Authentication Security has been limited to applications which provide inherent support for MFA. They offered a standard integration to CPRF with comparatively much higher cost.

## Why our solution was chosen over other solutions

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- ❖ Only organization providing Multifactor Authentication Security at **Protocol Layer.**
- ❖ Robust and Proven Technology
- ❖ Competitive Prices
- ❖ Seamless integration with any application
- ❖ Flexible Network and Time Policies
- ❖ Simple Deployment Model and Unparalleled Support

### **Authshield Multi-Factor Authentication offers High-Return on Investment**

Multi-factor authentication is a far more robust security solution than traditional password authentication as it requires two separate security elements. Intruders not only need to obtain a password or PIN code, but would need the physical authentication device in order to access the corporate network and its applications.

The world's leading **Authentication Security** organization

# Case Study

## About Innefu Labs

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Innefu is a Research Oriented Information Security Organization with more than 07 years of experience in Cyber Security. Only organization in the world to have integrated Multi Factor Authentication at a Protocol level thereby achieving direct integration with Microsoft Exchange mail clients, Lotus notes, SAP, legacy applications etc.

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