

# Customer story

INDUSTRY:

TOLL GATES



## HIGHLIGHTS

Making the Journey Safe and Sound:  
Navigating Toll Connectivity using  
Wireless SD-WAN Connectivity

### CLIENT

A network of toll gates responsible for managing toll collection and security on national highways.

### REQUIREMENT

The client sought an alternative to MPLS VPN for a bandwidth capacity of 4 Mbps, requiring a secure, reliable, and cost-effective network solution, either wireline or wireless.

- Additionally, they needed to manage their IT network infrastructure to securely access business applications hosted in an on-premises data centre.

### CHALLENGE

The client encountered substantial difficulties in connecting their network to national highway offices using traditional methods such as MPLS, NLD, P2P links, or VSAT, owing to the high capital expenditure involved.

This connectivity issue also obstructed the implementation of CCTV for security purposes. Establishing a primary connection was problematic, making a secondary link in these remote highway locations impossible.

Furthermore, security concerns precluded the use of the internet for accessing their on-premises business applications.

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## SOLUTION

### [ Wireless SD-WAN Connectivity ]

To address this complex network requirement and challenge, Viva provided an ideal solution for the client.

The proposed solution included the following components:

- **SMOAD SD-WAN Routers Deployment:** SMOAD SD-WAN routers were deployed at the highway offices, equipped with in-built 4G/LTE capabilities (up to three LTE slots). This setup provided a cost-effective and efficient solution for seamless connectivity.
- **Load Balancing and Redundancy:** The solution featured an active/active configuration that balanced the load across multiple connections, maximising bandwidth utilisation and ensuring uninterrupted access to critical business applications.
- **Secure VPN:** The SMOAD platform ensures that all data is transmitted over a highly secure and robust VPN solution using the WireGuard protocol. This improves operational efficiency and ensures key encryption, protecting sensitive data.
- **Centralised Dashboard Management:** The centralised dashboard management simplifies network administration and monitoring, providing real-time visibility and control over the network infrastructure. This feature eliminates the need for extensive on-site IT support, ensuring efficient and secure management of the network.