



VIAPLUS
by VINCI HIGHWAYS

VIAPLUS LATITUDE™ SATELLITE TOLLING SOLUTION

ViaPlus Latitude™ enables nationwide tolling schemes by leveraging satellite technology (GPS or GNSS) to collect tolls from across diverse road networks. Using a mobile app or in-vehicle device (OBU) for vehicle geolocation, Latitude™ features proxy-based filtering for accuracy, seamlessly integrates with existing infrastructure, and flexibly adapts to local environments and toll models:

1) Full Road Charge: the entire distance traveled is charged when the vehicle is moving above a pre-defined speed threshold

3) Toll Point Charge:
the vehicle is tolled at a geofenced virtual toll point

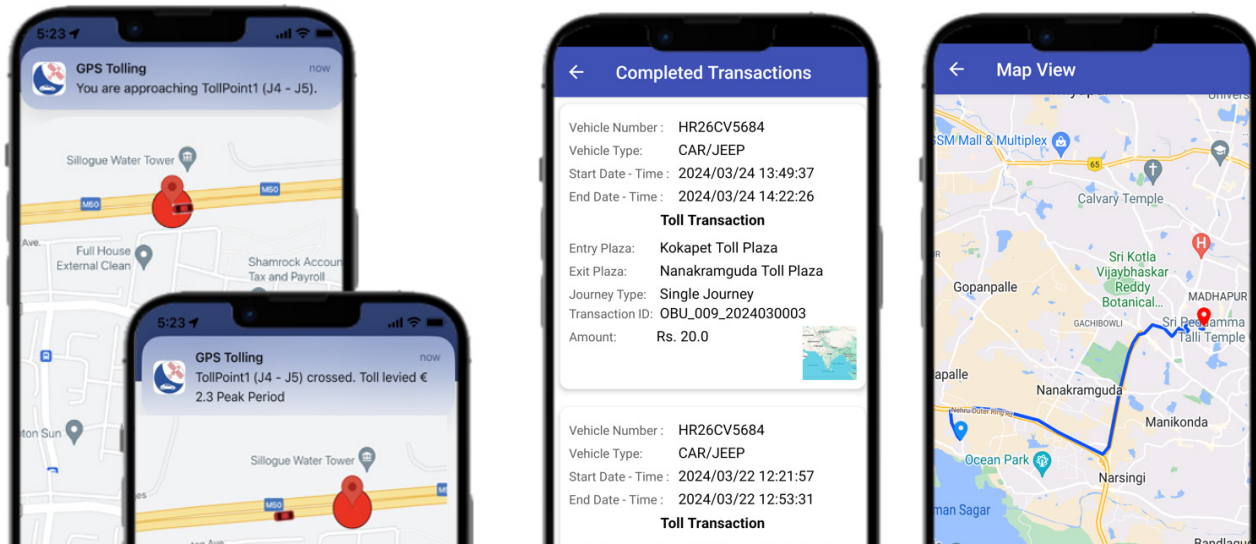
2) Road Segment Charge: roads are classified as chargeable and non-chargeable; the vehicle is tolled for using chargeable roads

4) Entry / Exit Point Charge:
the vehicle is tolled at geofenced entry and exit highway points

RUC-ready. Latitude™ can support road user-charging (RUC) schemes by connecting to a back office system like ViaPlus Alpha™, which accepts various types of toll transactions with robust and multi-featured account and financial management modules.

Benefits. Latitude™ offers an accurate, secure, and effective solution to toll vehicles in a free-flow manner without extensive infrastructure costs. The scalable technology can work across a wide geography for driver and agency convenience, and environmental benefit.

ViaPlus Latitude™ Mobile Tolling App



Mobile App

- Mobile phone applications with GPS capabilities can be used in place of a dedicated onboard unit (OBU) to precisely track the vehicle.
- It can be used in GPS tolling schemes with or without the application open.
- Data is not stored when the location tracking is on. Tracking can be turned off when the app is not in use.
- An accurate and economical tool for road user toll schemes reduce the expense of infrastructure and OBU costs.
- Intelligently detects gaps due to GPS signal loss and accurately interpolates the missing points.
- Payments can be managed via prepaid, invoiced, or a payment website.

GPS Trials & Implementations

● Hyderabad, India

Hyderabad Outer Ring Road

- mobile app geolocation
- geofenced entire road and toll plazas
- trip tolled from entry- to exit-toll plazas
- collected 250 GNSS toll transactions; correlated with FASTag transactions

● Karnataka, India

Bengaluru-Mysuru Expressway

- extensive map-matching trials and programming on a complex highway featuring bridges, underpasses, and parallel non-toll roads

● Dublin, Ireland

M50 Orbital Highway

- mobile app geolocation
- geofenced virtual toll points