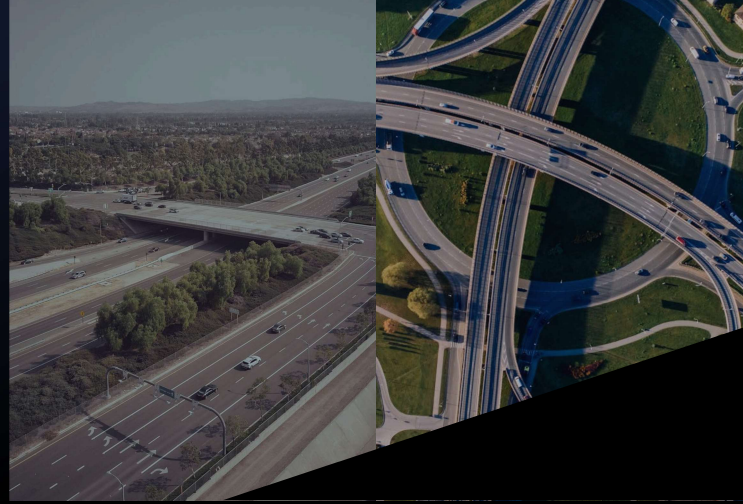




## Ramp Metering:

GoRamp — Smooth the Merge, Maximize the Mainline



**G**oRamp brings freeway on-ramp control into a single, standards-based management platform. Built on the NTCIP 1207 standard and third-party vendor protocols, GoRamp connects to, monitors, and commands ramp meter controllers across your network — managing metering state, base and active meter rates, queue conditions, and mainline flow from one unified interface.

**O**perators get full command authority over every ramp. GoRamp issues fixed-rate metering, dark, rest-in-green, emergency-green, and time-sync commands through a prioritized queue that runs several command types at once, keeps sustained commands in force, and clears stale requests automatically. Commands can be sent live or scheduled ahead, and every change is traced back to what triggered it.

**G**oRamp continuously captures device performance. Every successful reading is stored as a historical record — metering rate, queue and demand status, mainline speed, flow and occupancy, cycle counts, vehicle releases, red-light violations, and erratic-detector counts. Those readings roll up into hourly, daily, and weekly trends that power rush-hour, week-over-week, and busiest-period analytics.

**F**rom the controller database viewer to the on-ramp and mainline flow model, GoRamp gives engineers deep configuration control. Draft and system configurations can be edited, approved, backed up from the live device, and pushed back to the controller, with every change fully audited. Alarm settings, live status updates, and a geospatial map layer round out a complete ramp metering operations toolkit.

### Ramp Metering Feature Highlights:

- Standards-Based
- Command Queue
- Metering Analytics

#### SUPPORTED PROTOCOLS

**DEVICE PROTOCOLS** *NTCIP 1207 and third-party vendor protocols*

#### METERING COMMANDS

**COMMAND TYPES** *Fixed Rate, Dark, Rest/Emergency Green, Set Time*

**COMMAND QUEUE** *Prioritized, multi-type, auto-expiring*

**SCHEDULED COMMANDS** *Queue commands to take effect at a set time*

#### TELEMETRY & ANALYTICS

**CAPTURED METRICS** *Meter rate, queue/demand, mainline flow/speed*

**ANALYTICS** *Rush-hour, week-over-week, busiest-period trends*

#### CONTROLLER DATABASE MANAGEMENT

**DATABASE TYPES** *Draft & system, with approval workflow*

**BACKUP & DOWNLOAD** *Back up live device, push approved config*

*\* Device capabilities and telemetry fields scale to the connected controller, its firmware, and the configured protocol.*