INRIX IQ

Signal Analytics API

Bring powerful signal performance insights into your own tools or solutions via our new API.

When it comes to understanding signal performance, agencies with ATSPMs still have limited visibility—confined to intersections with hardware. Piecing together field studies, dashboards, and siloed tools makes comprehensive analysis difficult. Meanwhile, hardware vendors struggle to offer value beyond their installed footprint, limiting their ability to deliver full coverage or software-driven insights.

The **INRIX Signal Analytics API** gives agencies and vendors instant access to network-wide signal performance metrics using only connected vehicle data. Instead of logging into another platform, users can integrate trusted signal KPIs like delay, LOS, and percent on green directly into their own dashboards, planning tools, or analytics environments.

Whether you're a hardware vendor looking to expand visibility beyond your installed base, or a public agency tired of fragmented tools, the Signal Analytics API delivers fresh, scalable insights for every signalized intersection in your region.

No new hardware. No new software. Just the data you need—where you need it.

For Equipment OEMS:

► **Extend Visibility:** Offer analytics across intersections without your equipment.

► **Bridge the Deployment Gap:** Provide performance insights even before field installs are complete.

► **Bundle Smart Services:** Create premium software tiers or upsell packages that include systemwide signal analytics.
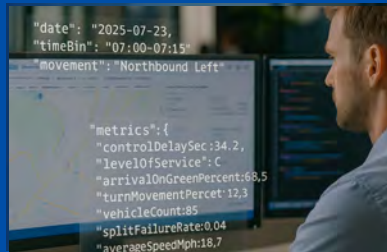
For Agencies:

► **Integrate Into Existing Tools:** Add high-quality signal metrics to your GIS, BI, or ops dashboards.

► **Fill Data Gaps:** Get KPIs for unequipped intersections using the same metrics as your ATSPM or sensor systems.

Systemwide Signal Visibility

No installs. No wait time. Get insights for every intersection, immediately.

No New Dashboard Required

Ingest clean JSON code directly into the tools you already use.

Trusted Metrics

Get validated, industry-standard metrics across 300K+ intersections.

Unlock consistent, high-resolution performance data across every signalized intersection—delivered via a modern, developer-friendly API.

Metrics Available:

- ► Observed Vehicle Count (by movement)
- ► Travel Time (average and max)
- ► Percent Arrival on Green (POG)
- ► Approach Speed (average and max)

- ► Control Delay (average and max)
- ► Level of Service (LOS)
- ► 3-Minute Delay (Count and %)

Key API Features:

- ► Programmatic API access to network-wide performance metrics
- ► Filters by intersection, time, movement, day of week, etc.
- ► Secure authentication and fast query response

- ► Easy integration with GIS, BI, or custom tools
- ► Metadata discovery for available intersections
- ► Pagination and cursor-based querying for scale

Contact us to find out how the Signal Analytics API can help agencies see the full picture with network-wide insights that go beyond hardware

INRIX

Connect & Learn More

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