

One Region, One Network

How iEnet became the technology integration partner behind the largest smart connected traffic corridor program in North America.

Client: Coachella Valley Association of Governments (CVAG)

Role: Technology Integration Management Partner

Partnership Since: 2021 — 5+ years and counting

12

AGENCIES

9

CITIES

200+

INTERSECTIONS (PII)

5,000+

FIELD DEVICES

The Challenge

CV Sync is the largest smart connected traffic corridor program currently underway in North America — a fiber and radio backbone linking nine cities, Riverside County, Caltrans District 8, and Tribal Nations across the Coachella Valley into a single regional traffic management system. Twelve agencies. Dozens of vendors. Hundreds of thousands of visitors moving through the corridor every event weekend — Coachella, Stagecoach, the BNP Paribas Open — on a network that doesn't get to pause for construction.

On paper, a program this size gets built the way most public infrastructure gets built: an engineering firm designs it, a contractor wins the bid, and a list of vendors each deliver their piece — cameras, switches, controllers, software — to spec. What that structure doesn't guarantee is that all of it will actually work together, or that the agencies running it will have one place to turn when it doesn't.

So, how do you turn dozens of vendors and 12 agencies into one coordinated system without ever taking a live regional traffic network offline?

We recognized early on that our team had the unique background to manage integration across every technology being deployed. We took on that role to ensure the overall success of the project. This project was too big and too important not to go all in, and in the end we are proud of the outcome.

— **Bryan Vinson**, Operations Lead, iEnet

The Solution

As Technology Integration Management Partner, iEnet owned network architecture, systems integration, and vendor coordination across the program.

- **Resilient industrial network:** Modernized the legacy network and expanded it with 300+ industrial Ethernet switches, redundant ring architecture, and centralized network management to improve resiliency, visibility, and recovery from field failures.
- **Unified video & analytics:** Consolidated nine city video systems onto one platform with failover at the Regional TMC and backup TOCs. Analytics alert operators to wrong-way drivers and vulnerable road users, with custom counts at priority intersections.
- **Layered cybersecurity:** Network segmentation, next-generation firewalls, and secure remote access, managed from a centralized platform with zero-trust access rolled out network-wide.
- **Scalable server infrastructure:** Redundant VMware clusters host every vendor's platform, so new capabilities don't require new hardware.
- **Integration Management:** Led weekly cross-vendor meetings and submittal/RFI review, using shared commissioning/acceptance templates. Crosstown credits this with keeping the project on schedule.
- **Lifecycle support & complete handoff:** Every agency received full closeout documentation, including network and analytics configurations and system backups.

The Results

Two years into Phase II's work integrating more than 200 additional intersections into a live system, CV Sync looks like proof that a program this size can actually work. What runs today is a single coordinated network across nine cities and 12 agencies, with real redundancy built into the design, a regional video system that fails over between cities instead of going dark, and analytics tuned to catch incidents in real time instead of just logging them.

That reliability didn't happen by accident — it was earned. "We had to very much prove ourselves that if a piece of equipment wasn't working correctly, we verified that everything was in line and done correctly," said Patrick Lisosky, iEnet Project Engineer on the program. "Given our involvement in the CV Sync project, we quickly had to become experts in every technology that connected to the network, giving us clarity to fully understand and troubleshoot when issues were encountered." By Phase II, other vendors and contractors on the program were bringing their own proposals through iEnet before finalizing them — a level of trust that, as iEnet Project Engineer Denis Cehic put it, "builds iEnet's reputation, not only in Coachella Valley, but across every other project those vendors touch."

For Crosstown, the program's prime contractor, the difference shows up in what didn't go wrong.

"I don't think the project could've happened without the caliber of iEnet's capabilities. I don't know how many companies are out there that could provide that hands-on personal attention... It's just to the point. They make it happen, and get it done."

— **Joe Meidl**, Senior Project Manager,
Crosstown Electrical & Data

For CT West, that trust shows up as a phone call that always gets answered, including the time an entire city's signals dropped off the network late in the day.

"iEnet's been so helpful in so many ways. They always answer the phone if I call, if I have a network-related question... they're always super helpful, always willing to help, even when it's outside of their scope or it's outside of business hours."

— **Joel Ljungberg**, CTO, CT West

Looking Ahead

Phase II closes out in 2026, but the network's job doesn't end there. iEnet and CVAG are training local agencies to securely operate and manage the network long-term, hardening cybersecurity against emerging AI-driven threats, and expanding ring topologies and wireless connectivity as the corridor grows into future phases.



**For more information or to request
a demo, contact us at:**
sales@industrialenet.com | (866) 670-3638

