



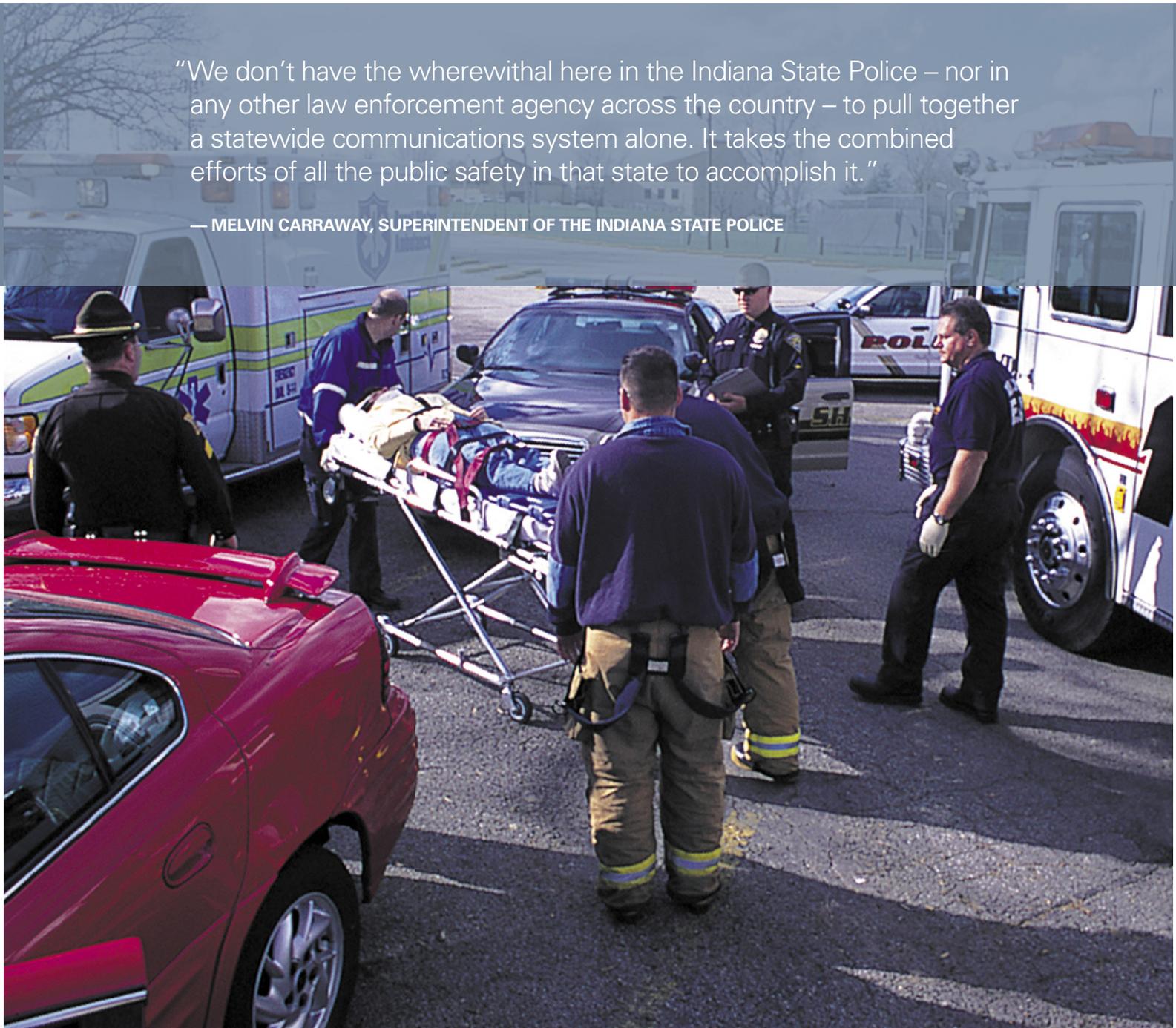
MISSION CRITICAL

INDIANA STATEWIDE PUBLIC SAFETY NETWORK

PROJECT HOOSIER SAFE-T

"We don't have the wherewithal here in the Indiana State Police – nor in any other law enforcement agency across the country – to pull together a statewide communications system alone. It takes the combined efforts of all the public safety in that state to accomplish it."

— MELVIN CARRAWAY, SUPERINTENDENT OF THE INDIANA STATE POLICE



“I think sometimes the general public feels that you’re going to have one fire department and one police agency take care of everything. That is never the case. The days of a single agency taking care of any kind of a major incident are long gone.”

— LT. ROBERT RICH, COMMANDER OF THE STATE POLICE POST IN BREMEN, INDIANA



SITUATION

Unifying a patchwork of overlapping radio systems.

Until recently, the people who protect the citizens of Indiana had too many networks. The situation in Johnson County was typical:

“We had 18 different police and fire communication systems, spread over three different bandwidths,” says Joseph Pitcher, Executive Assistant – County Attorney. “Police in adjoining cities could look at each other in their cars, but couldn’t talk to each other on their radios.” At the same time, “We had such antiquated equipment that we were literally putting in 50% of the value each year on repair and parts.” And channel interference was a big problem.

Multiply this across 92 counties and the problem comes into focus. Since all of these agencies shared the same goal – serving and protecting the public – why should each struggle alone to achieve mission critical communications?

SOLUTION

One state, one network.

Project Hoosier SAFE-T provides the backbone: towers, antennas, tower shelters, generators, transmitters, base stations, cabling and frequencies. Participating agencies provide their own user equipment, including dispatch consoles, radios and computers, which they can buy at a 20-25% discount through the state.

Participation is voluntary. Agencies pay no monthly or annual fees, and often they can continue using their old equipment. The goal is to make interoperable communications affordable for every community.

SAFE-T is being deployed in phases. It operates on a 800 MHz trunked voice and data system and supports both analog and digital radios.

RESULT

Saving lives and saving money.

SAFE-T is already deployed in several regions. Vigo County Sheriff Jon Marvel reports that, “The interoperability has proved itself many times. Other agencies, in particular the State Police, monitor this frequency. So if we get a call from a citizen in distress and they have a car that’s two blocks away, they can respond. It’s as if we have 100 more vehicles providing safety and security for the residents of my county.”

In Johnson County they’re getting similar results. “We had a missing child in a rural area,” Pitcher says. “Four different departments were able to respond and find the child because they were all on the same radio system.”

As for the economic benefits, “A little county like mine would never have been able to afford a system like this,” Sheriff Marvel says. “Hoosier SAFE-T has allowed us to take advantage of the state’s buying power, so when we go to our county councils and ask for money, we’re getting the lowest rate possible.”



True Interoperability

"Helping Hoosiers to help each other."

"I think sometimes the general public feels that you're going to have one fire department and one police agency take care of everything. That is never the case," says Lt. Robert Rich, Commander of the State Police Post in Bremen, Indiana. "The days of a single agency taking care of any kind of a major incident are long gone."

Superintendent Carraway says, "If you think of the disasters that have happened in this country, it's always been the help of others that's made the difference. What we wanted was a system that provides for our own agencies to talk and respond to issues in our communities – but when an emergency arises that involves agencies outside our boundaries we'd accomplish that, too. Not with some wires and plugs that someone had to run off and gather, but simply designed into our system."

Catastrophes aren't hard to find. Lt. Rich notes that, "Realistically, we know that every year there are going to be tornadoes. We have to respond with sheriff's agencies, city police, emergency management

agencies, state and county highways, numerous departments. When we were all on different radio systems we would be trading walkie-talkies. Now with the radio system working the way it is, we have one portable which lets us communicate throughout the state."

Indiana's front-line personnel understand the value of interoperability. Brooks Johnson, State Police trooper, says, "I want any information I have that is essential to the safety of the public and other officers to get out. I want whoever is listening, whether it be dispatch or another officer, to understand exactly what I'm saying and get all the information, not just bits and pieces of it."

Jason Davis, Patrolman with the Whiteland Police Department, sees the results. "When I first started here, I could be 100 or 200 yards away from a Greenwood or a Franklin officer and not even be able to talk to him. Now with the system we have, I can switch the channel and talk to any agency I want."

Interoperability...Then and Now

In six years, two tornadoes rampaged through Johnson County, carving paths just 1,000 feet apart. Joseph Pitcher remembers:

April 1996, before SAFE-T

"The old system had very poor coverage of that area. Even though we had a huge response of personnel, due to antiquated technology, the dispatch center couldn't tell people what to do. This prolonged appropriate response on many fronts."

September 2002, with SAFE-T

"Our new radio system had been up approximately eight to nine months. Even though we had more personnel and departments, and even though the devastation was even more than in 1996, we completely cleaned the scene up. All calls were responded to in less than seven hours. That new radio system totally changed the quality of the response to the incident."



Critical Networks

“Without your radio, you’re out there by yourself.”

State Trooper Ryan Lebo knows what a “critical network” means in the field. “A lot of times we’re the only ones working the county, so our backup may be 15, 20 minutes away. Without your radio working properly, you have no relay of information and you’re out there by yourself.”

As a mission critical network, SAFE-T is designed so that rescuers like Trooper Lebo won’t be left alone on the job.

Availability “We never even considered a public network because of the volatility of that business. They buy each other out daily and they disappear and go bankrupt and quite frankly, I don’t know if I could trust those people with such sensitive information. There’s something to be said about the relationship we have had with Motorola. And I know of no public provider that has come even close to building up that level of support.”
– Joe Pitcher

Redundancy “If lightning takes out one of our 911 stations, then it goes to the City Police dispatch or the State Police dispatch. If something would take out our tower, the state police have a tower. That’s the type of redundancy we need in law enforcement. We cannot fail the citizens because of weather or some other kind of disaster.”
– Sheriff Marvel

Capacity “For years our county shared the VHF band with three other dispatches that threw interference on our radio traffic. Sometimes we could hear their dispatch center two counties away better than our own. Now we no longer have to compete for radio time with other jurisdictions.”
– Eric Brown, Division Chief and Fire Marshall for White River, IN.

Command and Control “It’s very necessary for the private network to be there. For law enforcement, whether it’s liability issues or officer safety, command has to know exactly what’s going on. Without that command and control, we lose our officers.”
– Superintendent Carraway



Mission Critical Data

Making a stark difference with mobile data.

With SAFE-T's future data capabilities, Indiana is entering a new era of law enforcement. "Data becomes very critical for the new generation of officer who is more prone to need that immediate action, that immediate response," says Superintendent Carraway.

Johnson County has a Computer Aided Dispatch (CAD) system that serves nine police departments. "It has made a stark difference in the way we respond to incidents and investigate," says Joseph Pitcher. "Before, we had no idea that adjoining agencies were working similar crime patterns and looking for the same bad guys. Now that we're sharing data, many more warrants are being served and many more people are being picked up."

"After 9-11," says Lt. Rich, "there were numerous terrorism warrants issued. In this district, we were able to get a couple of those people off the streets as soon as possible." He adds that, "Using their terminals, our officers in the street can get information right away. They don't have to go through a dispatcher who then has to run the information and get back to them. Officer safety has been greatly improved, and it will also increase the safety of the public."

In Vigo County, Sheriff Marvel is excited about mobile data. "With Sept the 11th, I believe that we should be as far ahead, on the cutting edge of technology, as we can be for the safety of the citizens of my county. I want my officers to be able to sit in their car and be able to pull up needed information: a warrant on an individual or car that he's about to stop; NCIC checks, drivers license records, all of that information, and he doesn't have to burden the dispatcher, who may be on a 911 call giving lifesaving instructions."

“We’ve always had a Motorola system. I have found it to be reliable beyond belief. Other vendors that we have tried occasionally have always failed. I was very glad to see the State of Indiana go with Motorola as their prime vendor.”

– Sheriff Marvel, Vigo County

“Motorola not only understands the needs of public safety, I think they’re ahead of us. They are creating solutions to the issues that we don’t even know can be solved yet.”

– Joe Pitcher, Executive Assistant – County Attorney, Johnson County

Learn more about Motorola Mission Critical solutions.

We invite you to subscribe to the Motorola Mission Critical Solutions Series. You’ll receive in-depth white papers on important Public Safety topics including True Interoperability, Critical Networks, and Mission Critical Data. Simply visit www.motorola.com/missioncritical or call 1-800-367-2346.

Over 65 years of understanding the needs of public safety

In today’s world you need a partner who understands what mission critical is all about: the lives and well-being of your employees and the citizens they protect. That’s why Motorola is a leading provider of interoperable communications systems for public safety and first responders. Our experience in the public sector, along with our skills, people, partnerships and alliances, allow us to build innovative, fully integrated technologies that help organizations like yours share vital information with ease and confidence. We’ve been doing it for 65 years, and we’ll be standing by our customers for years to come.

We are committed to bringing all of our knowledge and technical expertise together so you can focus on what you do best... to serve and protect the public.



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