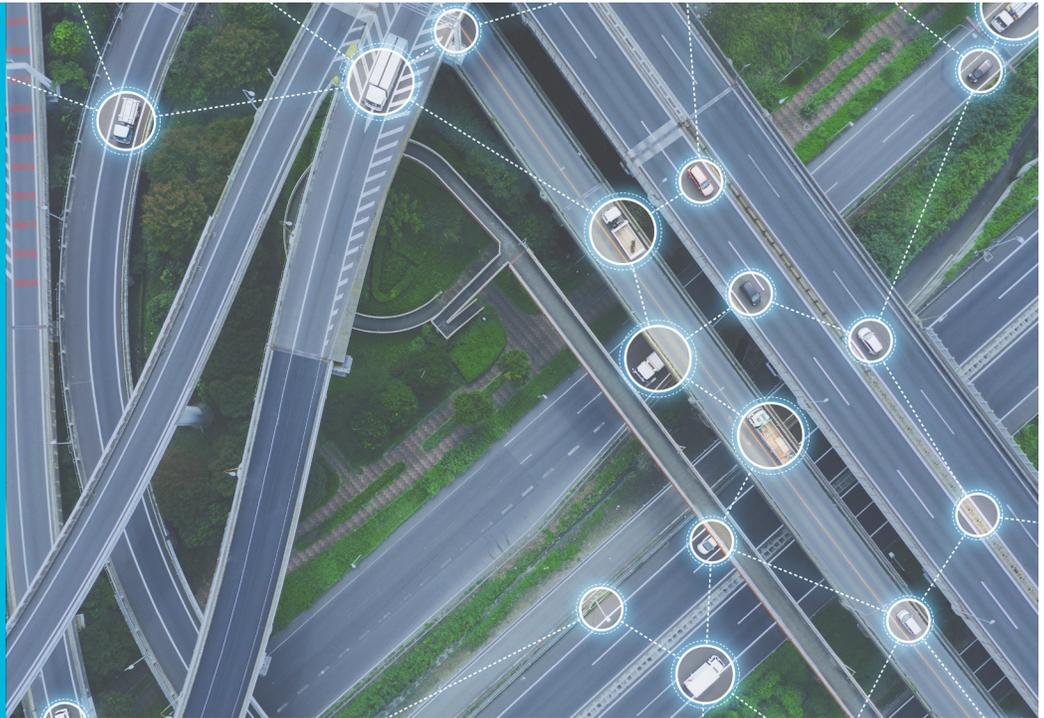


New Global Partnership Introduces

Multi-Modal Crash Avoidance System (MCAS)

Bringing transportation safety to smart cities and the autonomous and semi-autonomous world



sfara.

◀MobiledgeX▶

solace.

ACCEDIAN

Why the world needs MCAS

C-V2X and the future of transportation

The airline industry provides one of the safest modes of transportation in large part due to technology. That industry mandates the use of a Traffic Collision Avoidance System (TCAS) that uses transponders to share location data amongst planes to identify potential collisions.

On our roadways, where far more lives are at stake on a daily basis, we lack such a foundational and necessary safety mechanism.

And yet, as the world works to overcome the challenges of autonomous transportation, a chaotic transition is already taking place. Cars from the 80s, 90s, and 2000s drive side by side with technologically advanced semi-autonomous and autonomous vehicles. That disparity will continue to grow into the foreseeable future.

One of the biggest challenges to realizing autonomous transportation is getting all modes of transportation to communicate with each other and with associated infrastructure. Cellular communication, known here as C-V2X, is the fastest and most economical route.

Without C-V2X or massive infrastructure time and cost, the most technologically advanced autonomous features will still communicate, as they do today, primarily with themselves, using only line of site technologies to navigate and avoid collisions, but they can't predict potential collisions, allowing for more reaction time and fewer consequences.

This is why the four of us partnered up, to create an infrastructure that opens communication amongst all modes of transportation, including vehicles, bicyclists, pedestrians and others, for beyond-line-of-site collision avoidance and predictive trajectories. In essence, we've created for our roadways a safety infrastructure similar to that used in the ultra-safe airline industry.

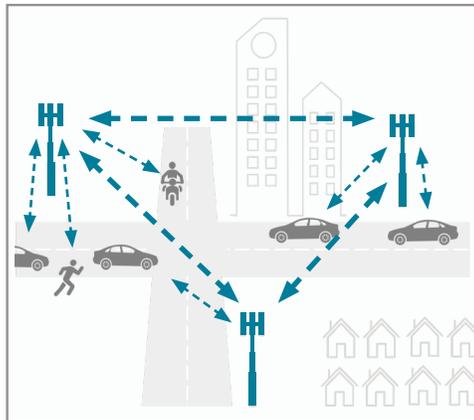
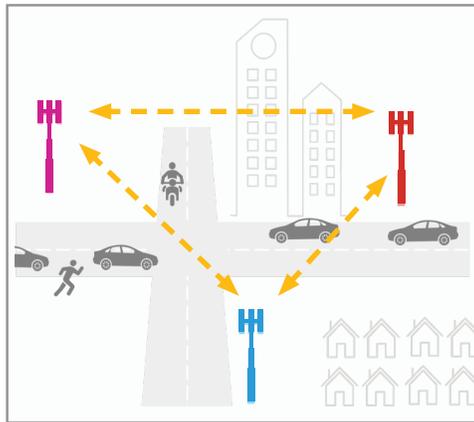
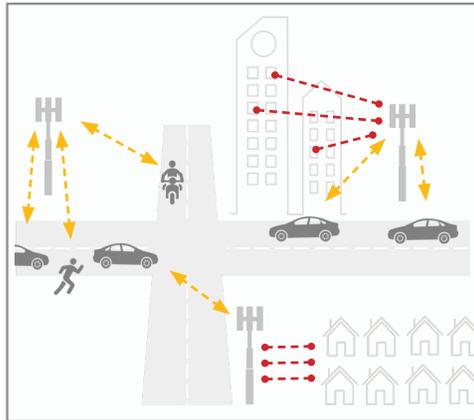
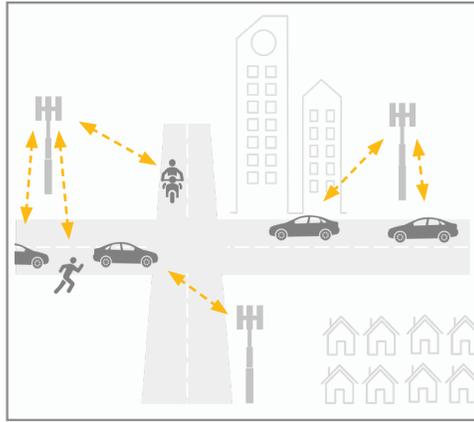
As a result, we are pleased to introduce the Multi-Modal Collision Avoidance System (MCAS), brought to you by Sfara, MobiledgeX, Solace and Accedian.

How we created MCAS

We've assembled a partnership amongst four global technology players offering best-in-class solutions covering all necessary aspects of an MCAS deployment.

This includes multi-modal, mobile crash detection, data prioritization, network compatibility and security.

Together, these partners offer an unparalleled opportunity to propel the transportation revolution forward with a solution that works today, not in some distant future.



sfara.

Sfara connects mobile devices to enable MCAS, making mode of transportation irrelevant

Sfara's mobile AI uses the hard sensors in ubiquitous smartphones and data from the edge to precisely determine location for use in situational mapping and predictive trajectories.

Why it matters

No other solution offers the ubiquity of multi-modal detection by smartphone. Plus, embedded solutions, which exclude non-vehicular transportation, that don't include a globally ubiquitous infrastructure.

solace.

Solace prioritizes MCAS data flow ahead of non-critical data

Solace extrapolates data sent to the cloudlets in the cell towers, prioritizes that data and then shares it as needed amongst cloudlets, giving priority to MCAS safety and emergency data.

Why it matters

In split-second, life-or-death driving situations, safety data must override other network traffic, such as people binge watching streaming shows or augmented reality apps chasing mythical creatures around the streets.

<MobilegeX>

MobilegeX creates localized cloudlets that allow MCAS data to work seamlessly across competing network infrastructures

MobilegeX cloudlets exist on the edge, which provides the ultra-low latency necessary for split-second decision making in driving situations and seamless data exchange through all participating carrier networks.

Why it matters

Without agnostic cloudlets on competing infrastructures, MCAS could only work in limited geographic zones, causing huge gaps in data.

ACCEDIAN

Accedian Monitors MCAS Network Performance & Security

Accedian provides auditable network telemetry, user attribution, as well as intrusion defense and forensics for the ultimate in security and reporting.

Why it matters

Critical safety data must be secure, but it must also be auditable and offer forensics that can detect or predict intrusions or other weaknesses.