# Version 2.3.0

# Overview

This software package demonstrates the use of TI mmWave sensors to count and track multiple vehicles in a traffic monitoring application. Using the IWR1642, detection and tracking algorithms run onboard the device to localize vehicles and track their movement with a high degree of accuracy. This package includes a max velocity extension algorithm that enables accurate tracking of at least 3x the max velocity as determined by the radar chirp configuration. The lab provides full source code and a CCS project and runs on the TI mmWave sensor xWR16xx EVM.

# Features

The following features are supported:

- Supports mmWave SDK 2.0.0.4
- Supports xWR16xx ES2.0 devices. Please note that xWR16xx ES1.0 devices are not supported in this release. Please refer to SDK 2.0.0.4 release notes for more information.
- tm_play tool for replaying collected data and adjusting group tracking results
- Vmax extension for at least 3x max velocity
- Group tracking algorithm for tracking multiple vehicles across multiple lanes

# New and Updated Features

The following features are new or updated in this release: Project Source Files

- Resolves CFAR configuration bug. No longer hard coded, can be configured by CLI command.
- Resolves bug in tm_genvideo tool which hard coded input file path. User now specifies path to file for video conversion.

# Resolved Incident Reports

The following are Incident Reports resolved in this release:

- N/A

# Known Issues

The following are Known Issues in this release:

- N/A

# Work Arounds for Major Known Issues

The following are workarounds for each known issue with a major severity that exists in this release:

- N/A

# Limitations

The following is a list of known limitations for this release that were known at the time of release:

- N/A