CACC for Aimsun

# Content for Application Page

## Tab 1: Summary

CACC for Aimsun is designed to simulate Cooperative Adaptive Cruise Control platoons in Aimsun.

## Tab 2: Description

CACC for Aimsun is designed to simulate Cooperative Adaptive Cruise Control platoons in Aimsun via a custom behavioral model developed with microSDK.

Aimsun is a multi-resolution traffic modelling platform that includes macroscopic, mesoscopic, microscopic and hybrid mesoscopic-microscopic modelling engines. The microscopic simulator is the only one that allows CACC emulation.

This application can be used to evaluate the operational benefits of CACC on freeways, testing different parameters for the algorithm and different lane configurations.

It requires a license of Aimsun 8.0 with microSDK.

## Tab 2: Release Notes:

### License

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### Installation and Removal Instructions

The CACC for Aimsun requires the microSDK for Aimsun 8.0 to compile a custom behavioral model library.

Compile the CACC behavioral model from the supplied source code.

Copy the compiled library and the provided .xml in the folder where custom behavioral models are stored (for example, in Windows: Aimsun 8.0\plugins\aimsun\model).

To remove the software, simply delete the library and .xml files.

### Operating requirements

CACC for Aimsun requires an Aimsun microSDK license to be compiled, and an Aimsun license to be executed. The requirements for the use of this application are the same as those for Aimsun alone; see https://www.aimsun.com/aimsun/tech-specs/ for details.

Aimsun runs on Windows, Linux, or Mac, and this application can be compiled for any of those operating systems.

### Related web sites

The software is distributed through the USDOT's JPO Open Source Application Development Portal (OSADP), <http://itsforge.net/>

## Tab 3: Documentation

* In the README file provided

## Tab 4: Discussion

* Main discussion (link)
* Issue discussion (link)

## Tab 5: Related Applications

* List of all applications with same categorization