

Countywide Address Management System (CAMS)

Goals and Objectives

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Goals

To achieve this, the cooperating departments have identified the following goals.

- Design a GIS database (a.k.a., a geodatabase) functioning as a central repository of Los Angeles County street centerline and address data (and all other required background reference layers) and supporting an improved address data model.
- Implement a new GIS data maintenance system (i.e. CAMS) designed to support distributed, multi-user editing of the street centerline and address point layers and their attributes.

Objectives

In pursuit of the above goals, the cooperating departments have identified the following specific objectives for the CAMS project:

- The CAMS geodatabase shall support both linear and point address data. These data elements shall be modeled spatially as line and point feature layers respectively. The CAMS Line feature layer will represent both the alignments and address ranges of Los Angeles County streets and highways, and will be loaded initially with data from the TUS LACoTRNL layer. *(It must be stressed, however, that the schema of the CAMS geodatabase will be designed by Los Angeles County to meet its requirements only, and will not be based on, nor attempt to accommodate, the schema of any outside vendor data. This design will allow Los Angeles County to load both linear and point address geometry and attributes from any desired vendor at any time.)* The CAMS Point feature layer will represent individual address points and other non-address locators (landmarks, intersections, etc.) in Los Angeles County.
- CAMS shall be designed with an enterprise architecture that supports distributed, multi-user editing, and performs optimally over the County's data networks.
- The CAMS software shall be developed to support editing of both the CAMS Line and CAMS Point feature layers. Its functionality for editing the CAMS Line features and attributes shall be conceptually similar to existing TUS capabilities for editing the LACoTRNL, and shall also include (but not be limited to) the ability to store differences in street attributes between two sides of a street, and to account for multiple street names.
- The system shall allow other GIS vector and raster layers, including aerial photography, to be displayed as background reference layers.
- The CAMS software shall include tools and mechanisms to validate line and point feature edits, prevent edit conflicts, and send information about data errors and inconsistencies (in the CAMS Line and Point layers as well as other background layers, such as Assessor

parcels and zipcode layers) to specified County staff in an automated manner (such as e-mails and attachments) that can include both text and graphics (i.e., a map).

- CAMS shall include functionality for exporting the CAMS Line layer to a coverage or shapefile in the LACoTRNL schema to support backward compatibility with existing production systems, such as those listed in **Appendix C**.
- CAMS shall include functionality for exporting the CAMS Line and Point layers to a coverage or shapefile to support data portability and to encourage the use of the data in new and as yet unidentified systems that may not have direct access to the CAMS geodatabase.