

USER-ORIENTED OPERATIONAL DESCRIPTION (CHAPTER 3 OF THE CONOPS DOCUMENT)

This chapter describes the operational problem to be solved and how a CTSS System helps the agency solve it. This is where we define the use cases related to application areas. When the use cases are selected in Chapter 3, it will guide you to which groups of user needs you need to select in Chapter 4, User Needs.

In the case of CTSS, the problems to be solved involve the agency's need to manage and maintain its traffic signal field infrastructure efficiently, which usually requires a remote access capability for programming and monitoring local traffic signal controllers. It also includes the agency's need to observe operational effectiveness in a way that supports improvement of the signal timings stored in local controllers. Finally, it includes the problem of tracking changes in traffic conditions that occur in ways traditional signal timing approaches cannot follow.

General Actors

The general actors represent the various roles and systems that interact with the CTSS System. Each actor represents a role, a user can have multiple roles and there can be multiple for the same type of actor. For example, a CTSS System Maintainer and a CTSS System User could be the same person or they could be different people.

Use Cases

Use cases capture the high-level typical interactions between an actor and a computer system. A use case needs to address a discrete goal of the actor/user. Besides the common use cases of system support (e.g., configuration, maintenance, etc.) the CTSS System use cases describe the user's activity in monitoring traffic signal effectiveness, making improvements in signal timing based on that monitoring, or in providing a system that monitors operation and makes improvements automatically.