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# Introduction

Closed toll collection system used on some toll roads in which a motorist pays a toll rate based on the distance traveled from their originating entrance to their destination exit.

# Purpose of Document

# Reference Document

* Plaza Integration API 1.0.0.1
* Lane Integration API 1.0.0.2

# System Block Diagram

Closed toll collection system divide into three parts. These are as below:

* Center Server
* Plaza Server
* Lane Server

**Center Server**: Center server is responsible for create the master data and share all master and transaction data to all plaza server. Master Data like Client configuration (Who is the system plaza integrator of highway). Plaza configuration Details. Lane configuration of each plaza along with lane type i.e., Entry or exist lane. Hardware list details of each lane. Toll fare for complete highway. All type of user’s creation to access the system like center server application, plaza server application and lane application.

**Plaza Server:** Plaza server is responsible for access the master data & other plaza transaction data from center server and share to all lane of plaza. Plaza server also share all lane transitions to center server.

Plaza Server have below modules

* LSDU (Live monitoring)
* Cash Up
* Auditing
* Reporting
* Master & transition data shared to lane and center server.
* CCH Transitions protocol
* Reconciliations
* Manage fast tag data for (blacklist, active & inactive)

**Lane Server:** Lane server is responsible to create the transaction for the commuter and shared to plaza server.

The Block diagram for the closed toll system is as below:



Figure 1:Closed Tolling System

# Data Transfer Protocols

Hypertext transfer protocol used to transfer the all data from lane to plaza to center server and vice versa.

We have developed the “Web API” that easily accessible through in internet/ethernet to access and share the all kind of data. “Web API” details shared in separate documents.