The Taiwan national freeway and 12 East-West Expressways will be gradually completed and open to traffic, which will form a freeway and expressway network in west Taiwan. As the freeways and expressways in this network are different in their levels and functions, it is urgent to establish a Taiwan Freeway and Expressway Integrated Network Traffic Management System to grade the network, and to plan and establish the traffic management system according to the requirements of each level of networks, for the purpose of exerting their transportation efficiency.

1. Objects

(1) To advance the establishment of an intercity freeway/expressway traffic management and control system as well as to enhance overall transport efficiency and traffic safety, based on existed traffic management and control systems, under the principle of unified administrative power, and by means of Traffic Management Grading Mechanism.

(2) To advance the operation of the Traffic Information Management and Coordination Center on demand of managing freeway/expressway network, and to achieve the harmony of traffic management operations on the principle of “centralizing information and controlling by regions”.
2. Benefits

This system is an infrastructure for intelligent freeways and expressways. With its completion, we can develop the network management function to achieve the goal of Advanced Traffic Management System (ATMS) in Intelligent Transportation System (ITS) and make full efficiency of Taiwan freeway/expressway transportation. We can provide the real time traffic information collected by this system to achieve the goal of Advanced Travelers Information System (ATIS). In addition, to develop the traffic control system along with the ETC will enter Taiwan’s freeway/expressway transportation into an e-transportation stage, making further development towards the goal of e-Taiwan.

3. Implementation

The preparation work was commissioned to a professional consulting company to make a comprehensive research for the freeway and expressway integrated network traffic management system. The plan discussed in detail such topics as fallibility, benefits, civil participation, time duration, etc. The research was completed in 2003. Then the Executive Yuan approved a construction plan in November 2004. The system is expected to finish in 2010.
TIMCCC

North Region Control Center
- Freeway Traffic Control System
- Expressway Traffic Control System
  Expressway No. 62, 64, 66, 68

Central Region Control Center
- Freeway Traffic Control System
- Expressway Traffic Control System
  Expressway No. 72, 74, 76, 78

South Region Control Center
- Freeway Traffic Control System
- Expressway Traffic Control System
  Expressway No. 82, 84, 86, 88

Information Exchange

Other Control Management System of North Area

Other Control Management System of Central Area

Other Control Management System of South Area