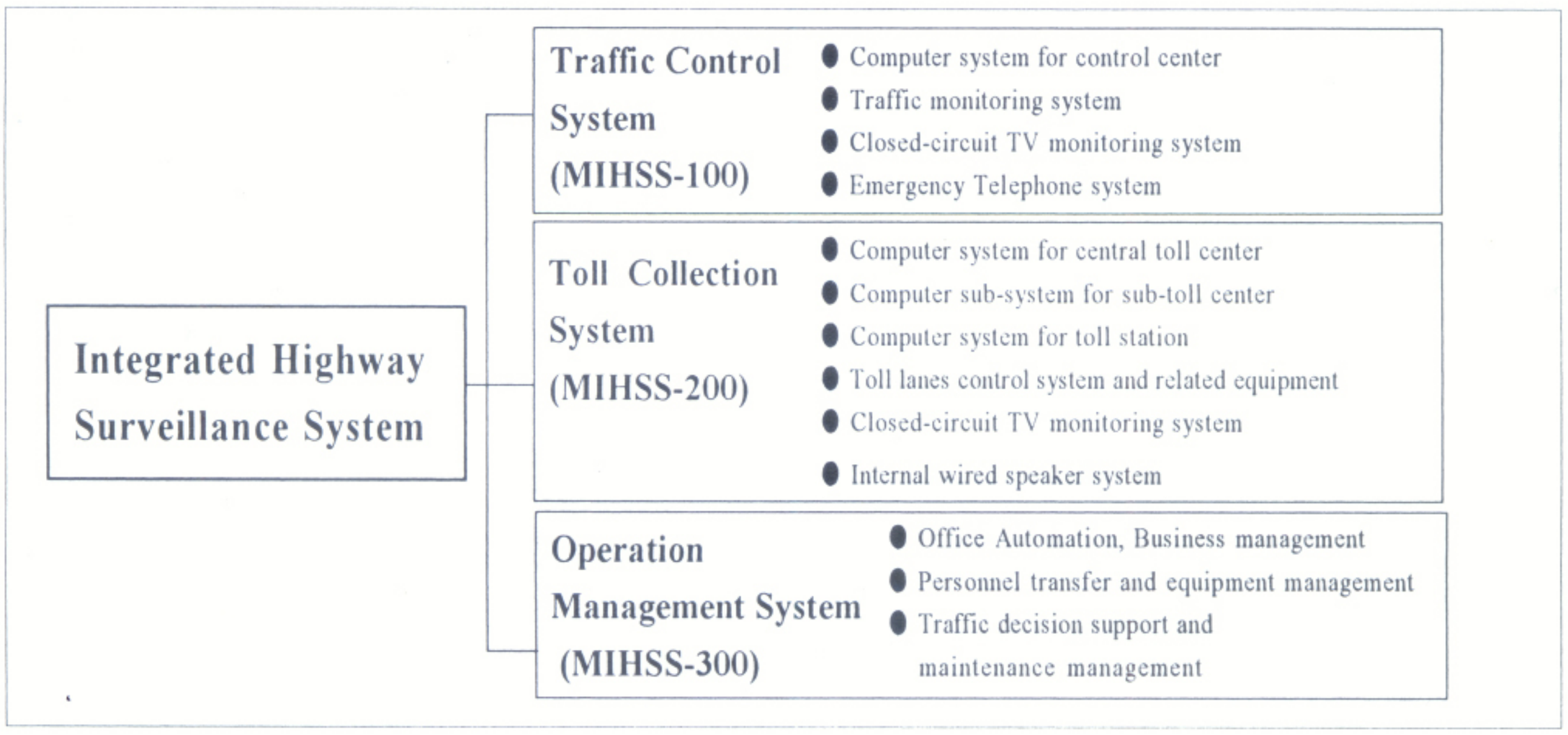
Integrated Highway Surveillance System

Any modern highway, besides using advanced technology as a foundation for its construction, most importantly, cannot do without the help of a highway surveillance system, in order to provide the public with a more expedient, and safer driving atmosphere! Take the example of Chungshan Highway in Taiwan, during the early stages of the entire highway being open to traffic in 1978, sudden traffic accidents on the highway could not be responded to immediately because of a lack of an automatic highway surveillance system, causing frequent accident emergencies. Fortunately, since the use of a highway surveillance system beginning in 1984, there have been marked improvement in both the number of traffic emergencies as well as the efficiency of dealing with traffic accidents. Therefore, the automation and computerization of traffic management and operation plays an important role in boosting the overall efficiency of road usage.

MiTAC Integrated Highway Surveillance System (MIHSS for short) combines Computer, Control and Communication technology to provide the customer with a traffic management, control, and resolution plan. The system will provide immediate, active traffic management according to different elements such as traffic flow and distinguishing road features...etc.



● Integrated Highway Surveillance System Architecture Diagram

System Configuration

The MiTAC Integrated Highway Surveillance System (MIHSS) is made up of three secondary systems:

1. Traffic Control System (MIHSS-100):
   Uses the surveillance equipment set up along the highway and at intersections to collect instant traffic information and send it back to the control center by fiber optic wire at timed intervals. The central computer then makes the best assessment and decision based on varied operational models and adaptable policies.
2. Toll Collection System (MIHSS-200):
   Provides two types open design and closed design of highway toll collection systems; both with outstanding collection efficiency.
3. Operation Management System (MIHSS-300):
   MiTAC has had long and varied experience with information systems in banking, household government, and human resources. Combining these experiences with the above mentioned traffic control and toll collection systems result in a complete traffic management system. This system consists of five functions:
   (1)Strategic support, (2)Internal management, (3)Management of occupational activities, (4)Automation of the office, (5)Systems support.

Successful Achievements

Major projects having to do with highways that MiTAC computers has completed in the past are as follows:

- *Chungshan Highway first stage traffic control system (section from Keelung to Yangmei).*
- *Chungshan Highway eight toll stations' toll counting system, including Hsichin, etc.*
- *Central computer system of the second Northern Highway northern section control center and tunnel control center.*

From the above related actual examples, one can see that MiTAC's abundant, accumulated experiences and strength in this area will surely provide the customer with the best solutions regarding highway traffic management.

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