

# MALAYSIAN INTELLIGENT TRAFFIC SYSTEM (MITS)



## PRODUCT OVERVIEW

- Introduce a network of traffic intersection controllers in an urban or statewide environment
- Provides the power and flexibility to control, monitor and allow the system to advise the user on the best optimized setting applicable for every intersection
- Consists of:-
  - ◇ MITS monitoring server
  - ◇ A database server used to store collected traffic data in retrievable format
  - ◇ A rack, UPS, PSTN / Wi-Fi / GPRS modems
  - ◇ Video matrix switcher
  - ◇ Large displays made up of monitors, projection or plasma television screens

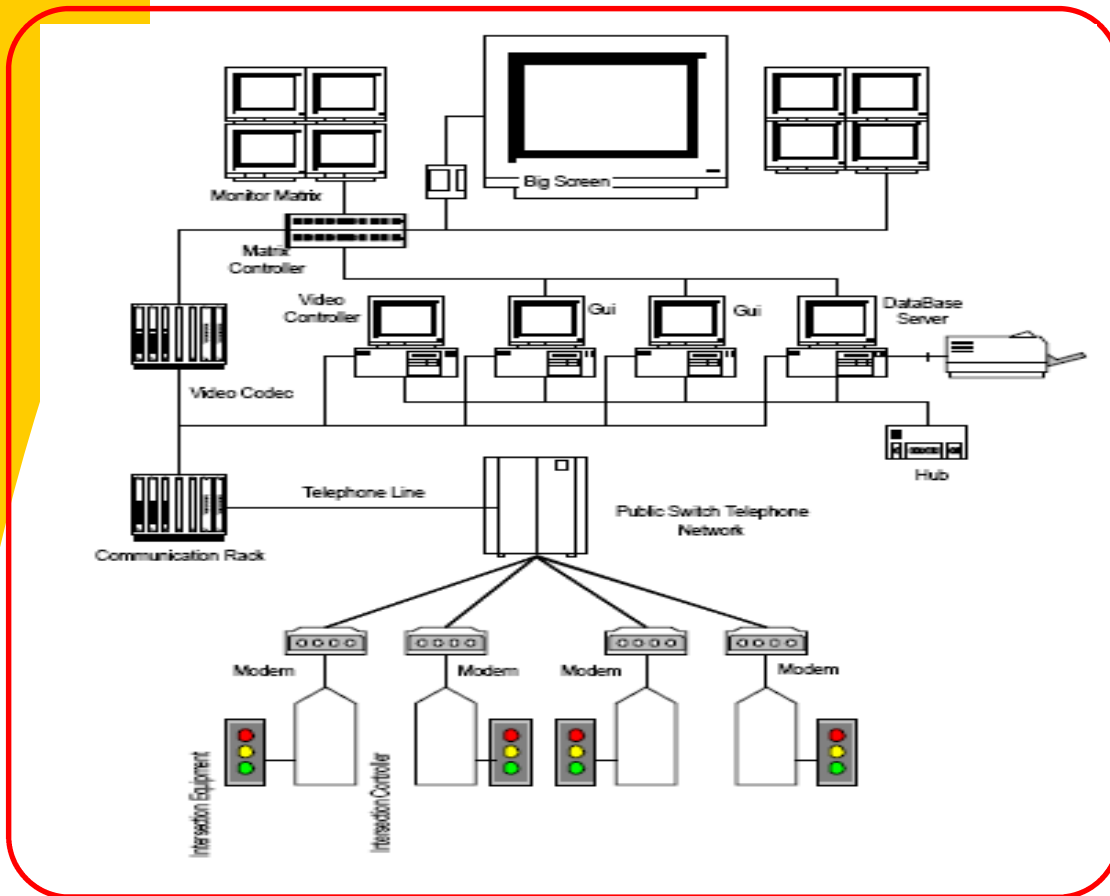
MODEL: MITS-1-001

Product Datasheet

PPK Technology Sdn Bhd

# MALAYSIAN INTELLIGENT TRAFFIC SYSTEM (MITS)

## Traffic Management Center (TMC)



- Up to 512 Regional computers per Control Center. MITS can control up to  $256 \times 512 = 131072$  traffic junctions per control center
- Method of Communication: GPRS/3G, Broadband (Static IP), Private Wifi (802.11b/g)

## MITS Data Analysis and Skip Phase

- MITS is designed to detect changes in the traffic flow, to analyze the data and to recommend the optimized flow timings
- MITS tracks the demand of vehicles on a cycle by cycle basis, such that if there is no demand on a particular stage or phase, MITS via the ITS Controller can omit these stages from the sequence of stages in the cycle
- This is known as skip phase or on demand phasing.

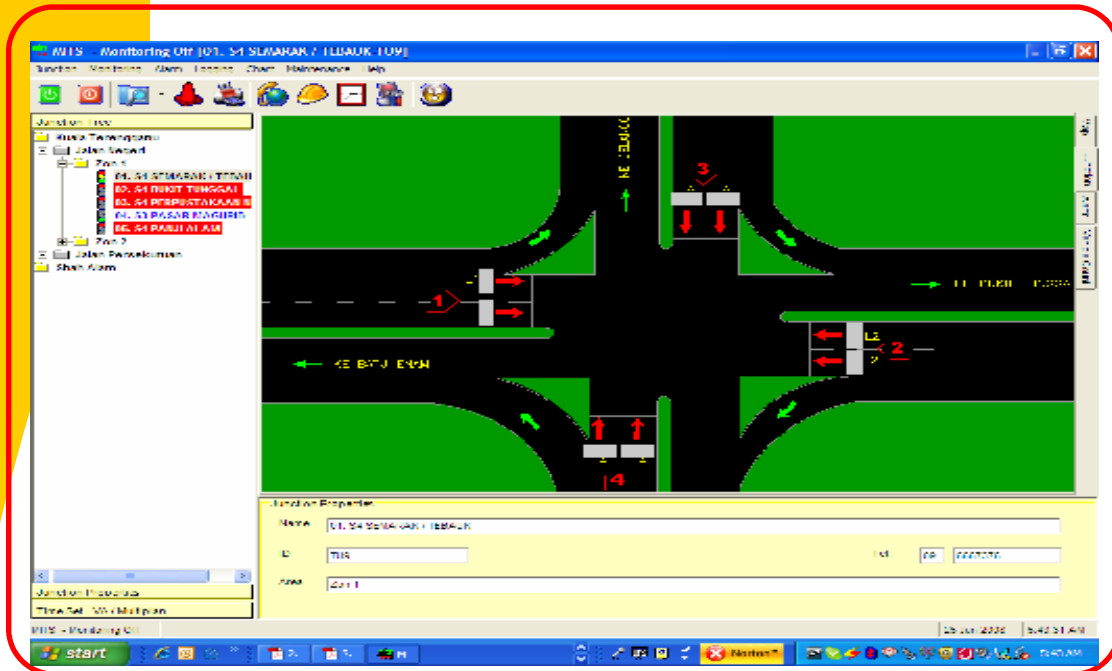
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## MITS Junction Display Menu



- Up to 512 Regional computers per Control Center. MITS can control up to  $256 \times 512 = 131072$  traffic junctions per control center
- Method of Communication: GPRS/3G, Broadband (Static IP), Private Wifi (802.11b/g)

## MITS Loop Failure Action and Multiplan

- If a loop sensor is damaged, the MITS system through the MATC Controller will
  - ◊ automatically revert to fixed time plans or Multiplan timing
- Individual fault basis
  - ◊ affecting only the phase containing the damaged loop channel
  - ◊ other phases will operate on full vehicle actuated except for the phase
- Relying on vehicle detector inputs from the faulty loop sensor channel.

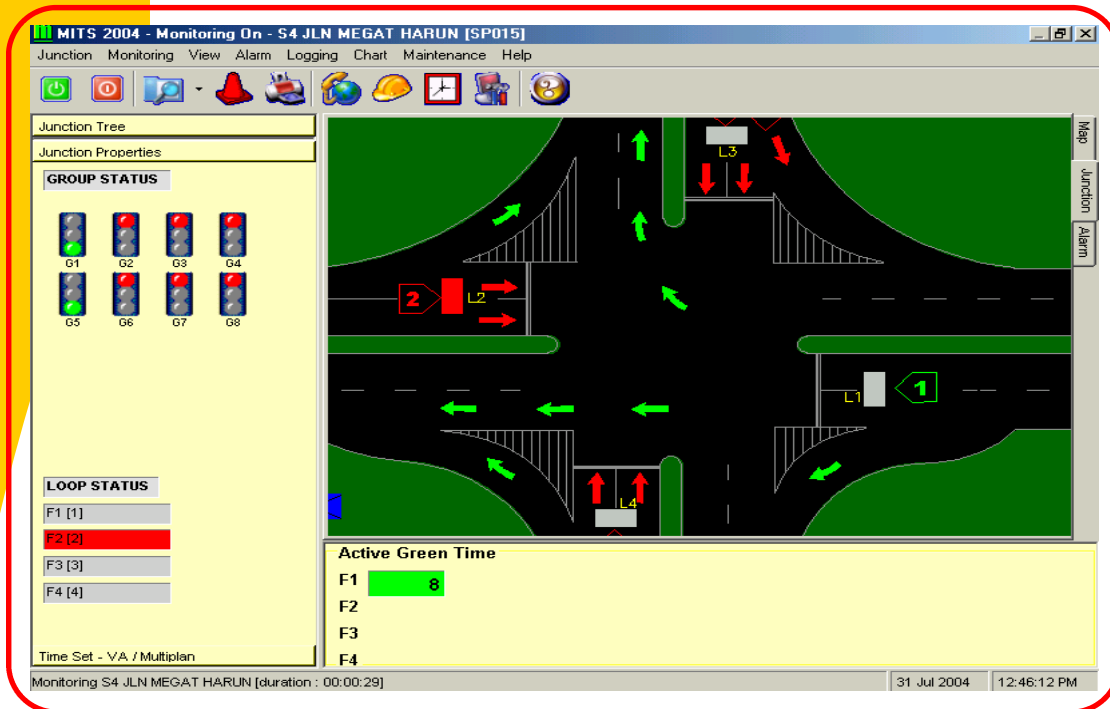
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# MALAYSIAN INTELLIGENT TRAFFIC SYSTEM (MITS)

## MITS Real-time Monitoring



- Up to 512 Regional computers per Control Center. MITS can control up to 256 x 512 = 131072 traffic junctions per control center
- Method of Communication: GPRS/3G, Broadband (Static IP), Private Wifi (802.11b/g)

## MITS Loop Failure Action and Multi-

MITS showing active groups status, loop failure, active phase and running time status

## MITS – Data Collection

- Average Green Time with Time-Stamp
- Fault Logging data
- Lamp Failure Detection
- Conflict detection
- Loop Status
- Power Failure
- Communication Failure

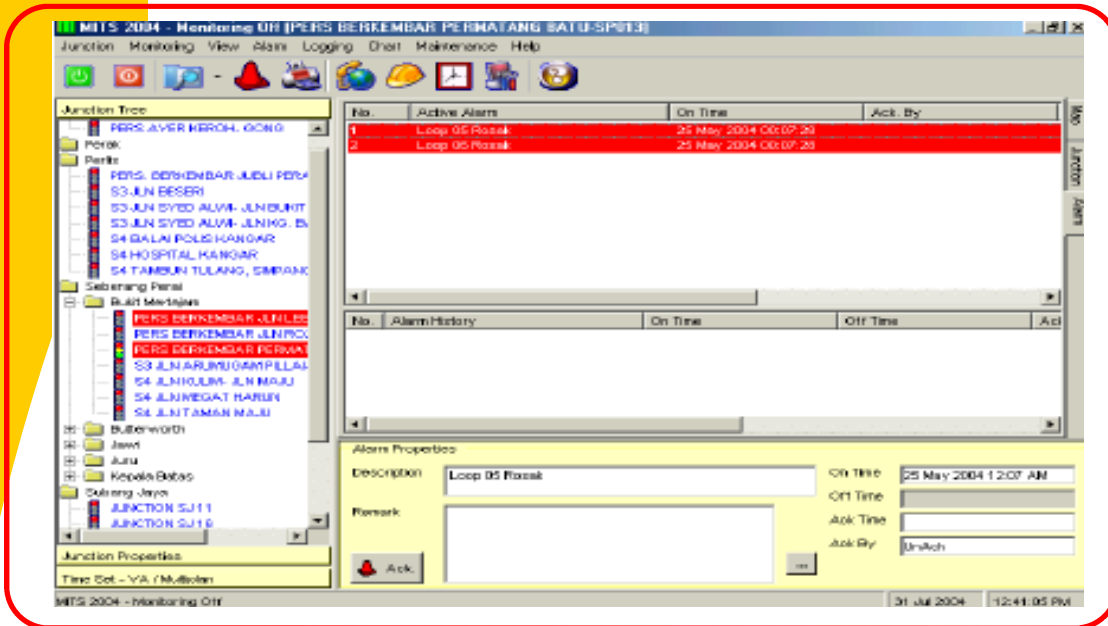
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# MALAYSIAN INTELLIGENT TRAFFIC SYSTEM (MITS)

## MITS Alarm Log



- MITS showing log of alarms, who repaired, date and time acknowledged by control centre and remarks of repair activities can be entered and printed as reports

## MITS Real-Time Monitoring

- Intersection operation status
- Current active phase
- Actual Running Green Time (Phase and Cycle)
- Alarm status monitoring
- Remote on-line Time-Setting
- Vehicle Actuation mode
- Multi-plan mode
- Remote on-line Clock and Date settings
- Green-wave link monitoring
- Police Control and Remote activation

MODEL: MITS-1-001

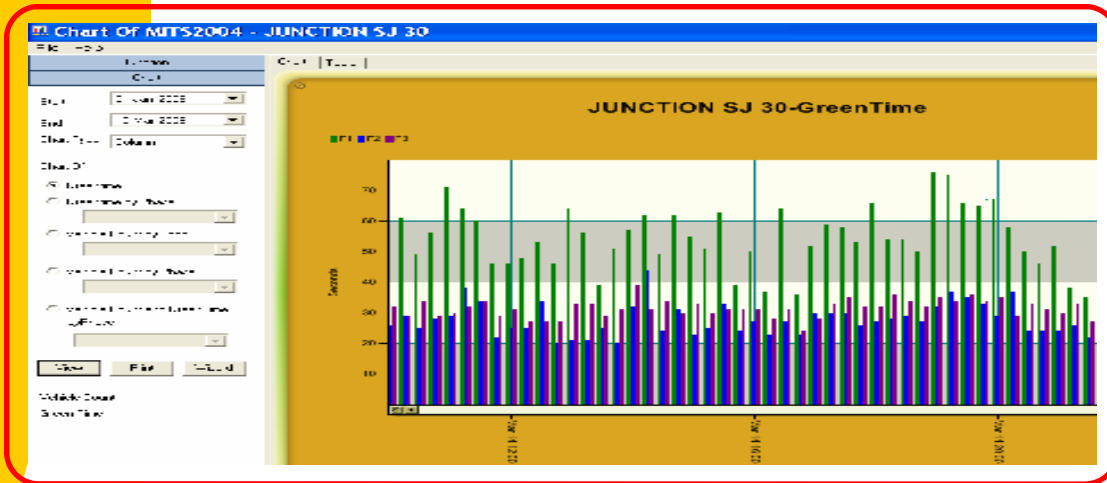
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# MALAYSIAN INTELLIGENT TRAFFIC SYSTEM (MITS)

## MITS Reporting

- MITS actual green time chart by phase reporting



## MITS Event Log

- MITS provides event log reporting

Date	Time	Junction	User	Action
7/1/2004	12:45:50	S4 JLN MEGAT HARUN	N/A	ONLINE
7/1/2004	11:10:09	JUNCTION SJ 31	N/A	OFFLINE
7/1/2004	11:02:54	JUNCTION SJ 31	N/A	ONLINE
7/1/2004	20:05:41	S4 JLN KULIM- JLN MAJU	N/A	OFFLINE
7/1/2004	19:31:05	S4 JLN KULIM- JLN MAJU	N/A	ONLINE
7/1/2004	19:28:31	S4 JLN KULIM- JLN MAJU	N/A	OFFLINE
7/1/2004	19:28:37	S4 JLN KULIM- JLN MAJU	N/A	ONLINE
7/1/2004	03:35:25	N/A	N/A	ONLINE
7/1/2004	19:00:01	S4 TELAGA AIR- JLN JETI LAMA	N/A	OFFLINE
7/1/2004	18:52:21	PERS AYER KEROH- SONGI	N/A	OFFLINE
5/25/2004	22:50:17	S3 PERS KELUAR MASUK LEBUHRA	N/A	OFFLINE
5/25/2004	22:49:15	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change TimeSec
5/25/2004	22:49:15	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change TimeSec
5/25/2004	22:49:02	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change TimeSec
5/25/2004	22:49:02	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change TimeSec
5/25/2004	22:49:02	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change TimeSec
5/25/2004	22:49:02	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change TimeSec
5/25/2004	22:49:02	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change TimeSec
5/25/2004	22:49:01	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change Ya Tir
5/25/2004	22:49:01	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change Ya Tir
5/25/2004	22:49:01	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change TimeSec
5/25/2004	22:48:43	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change Ya Tir
5/25/2004	22:48:45	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change LampSec
5/25/2004	22:48:45	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change LampSec
5/25/2004	22:48:45	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change LampSec
5/25/2004	22:48:41	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change LampSec
5/25/2004	22:48:40	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change LampSec
5/25/2004	22:48:40	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change LampSec
5/25/2004	22:48:31	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change LampSec
5/25/2004	22:48:31	S3 PERS KELUAR MASUK LEBUHRA	MZAM	Change LampSec

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### DEALER:

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