AGIL®

INTEGRATED TRANSPORT OPERATIONS CENTRE

ST Engineering

AGIL® Integrated Transport Operations Centre

With increasingly complex metro and traffic networks, an integrated transport platform is essential for real-time situation awareness of an entire multi-modal transport network. It offers quick incident response, optimised resource management and cross-agency collaboration.

Seamless Operations, Actionable Insights & Enhanced Response

To meet the needs of transport authorities and disparate stakeholders, it is crucial for cities to build an Integrated Transport Operations Centre (ITOC) to manage information from various sources on a unified platform.

Besides offering an overview of the transport network from metro lines, traffic, public transport, data is analysed to derive actionable insights for seamless transport management, swift incident response, optimised resource management and future planning.

Key Features

- Analytics and prediction

- Traffic sensing

- Commuter sensing

- Supervisory and control

- Event and crisis management

- Commuter engagement

- Equipment maintenance history

AGIL ITOC monitors, supervises and enables full real-time situational awareness of a multi-modal transport network. Through an integrated Geographical Information System (GIS) map, it tracks train movement, road traffic and commuter density.

Powered by an advanced analytics system, the ITOC aggregates and analyses multiple data sets to
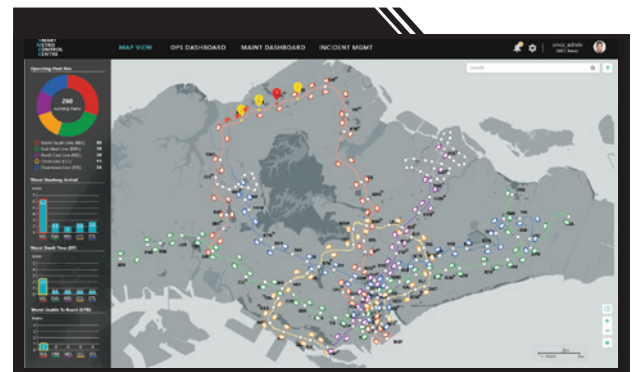
- Provide real-time operational overview of the transport network

- Predict potential disruptions and incidents

- Determine the appropriate actions and response plan

Alerts on anomalies in system and commuter behaviour are tracked using time-based thresholds based on collected data. Such data is used to test network performances under simulated scenarios, and validate incident management plans. To ensure continuous improvements across the transport network, best practices are derived and shared with transport operators and government agencies.

The ITOC offers a Key Performance Indicator (KPI) dashboard to monitor information gathered from metro lines, roads, stations, trains, stations' vicinity environment, and commuter travel patterns. The KPIs are aggregated and calibrated to provide an accurate real-time operational overview of the transport network. Information for the KPIs is collected from various metro and road systems such as power, automatic fare collection, signalling, Wi-Fi, cellular and CCTV.

Key Benefits

- Overall situation awareness

- Unified cross-agency collaboration platform

- Context proposed incident response plan

- Auto generation of metro performance index

- Decision support

- Planning and optimisation of transport resources

- Scenario-based simulation

- Real-time and post-operation analysis

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