

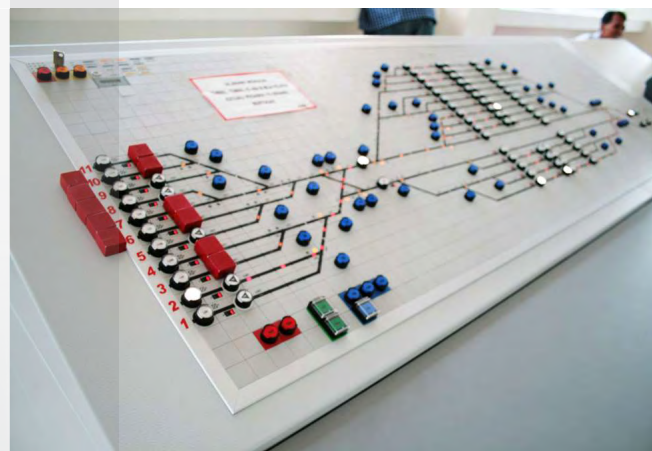
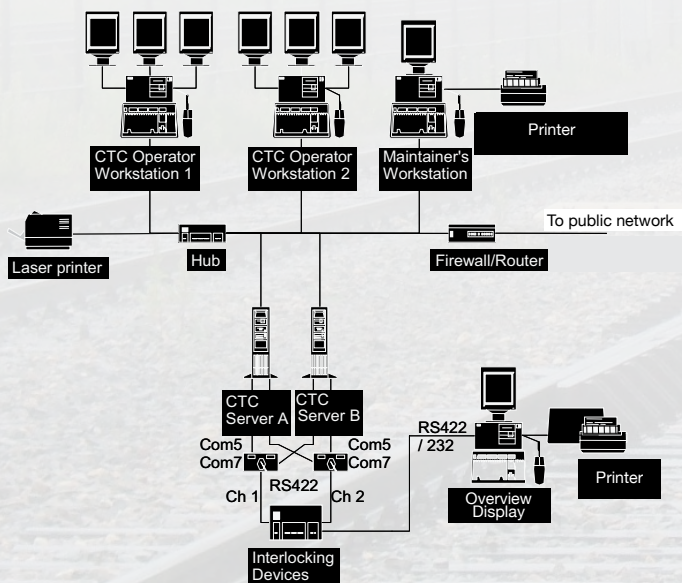
Introduction

The Centralised Traffic Control (CTC) system is a SCADA application running on one or more redundant servers. Its modular design and extremely flexible configuration supports:

- multiple operators
- fully customised graphical user interfaces (GUI)
- wall-mounted or freestanding overview displays (both LCD and mosaic tile screens)
- interfaces with many types of equipment
- many different interface protocols
- redundant networks
- remote and web access
- logging and alarms

CTC Architecture

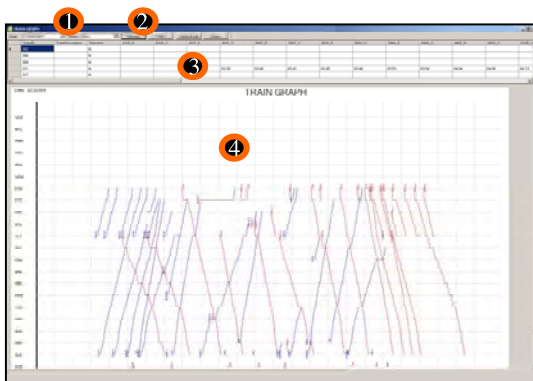
The example below shows two operator work stations, one maintenance work station, redundant server and overview display server.



Centralised Traffic Control System Options

Train Graph

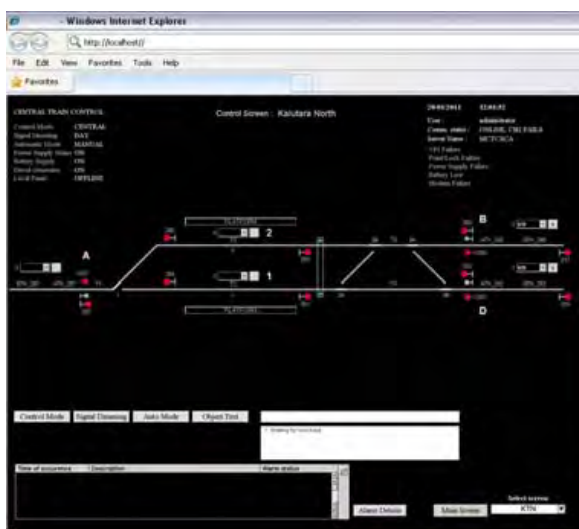
Train Graph is a tool to plan and track trains based on train ID number, indicating when the train is arriving or departing each station. Train Graph provides a graphical representation of the planned and actual timetables and is easy to use. It allows the user to analyse the feasibility of a planned timetable and indicates critical timing. It can show the actual position of trains on the track in relation to the timetable. It also allows you to analyse train data logs and identify cause and consequence of delays in the timetable.



Train Graph in Sri Lanka

Web-based Monitoring

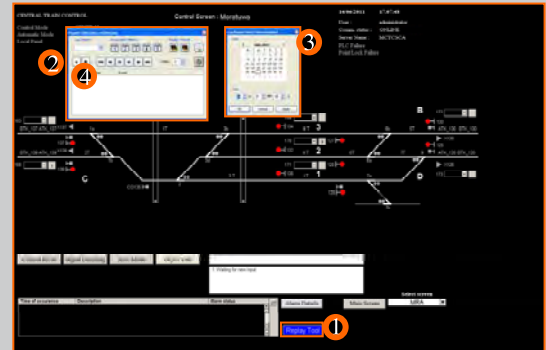
Web-based Monitoring is an easy-to-use tool to monitor train locations and routes over the internet.



Web-based Monitoring

Replay

With the Replay tool, you can analyse incidents by replaying log files containing operator actions, system behaviour and train movements.



CTC Replay in Sri Lanka

Automatic Train Numbering (Timetable)

This module compares trains entering the controlled area with the timetable. If the train is found in the timetable, it automatically assigns the correct train number to the train.

Passenger Information System

With this system, the names of stations and departure and arrival times can be displayed at the stations and inside the train.

Automatic Route Setting

This module automatically sets routes based on the timetable and availability of trains.

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