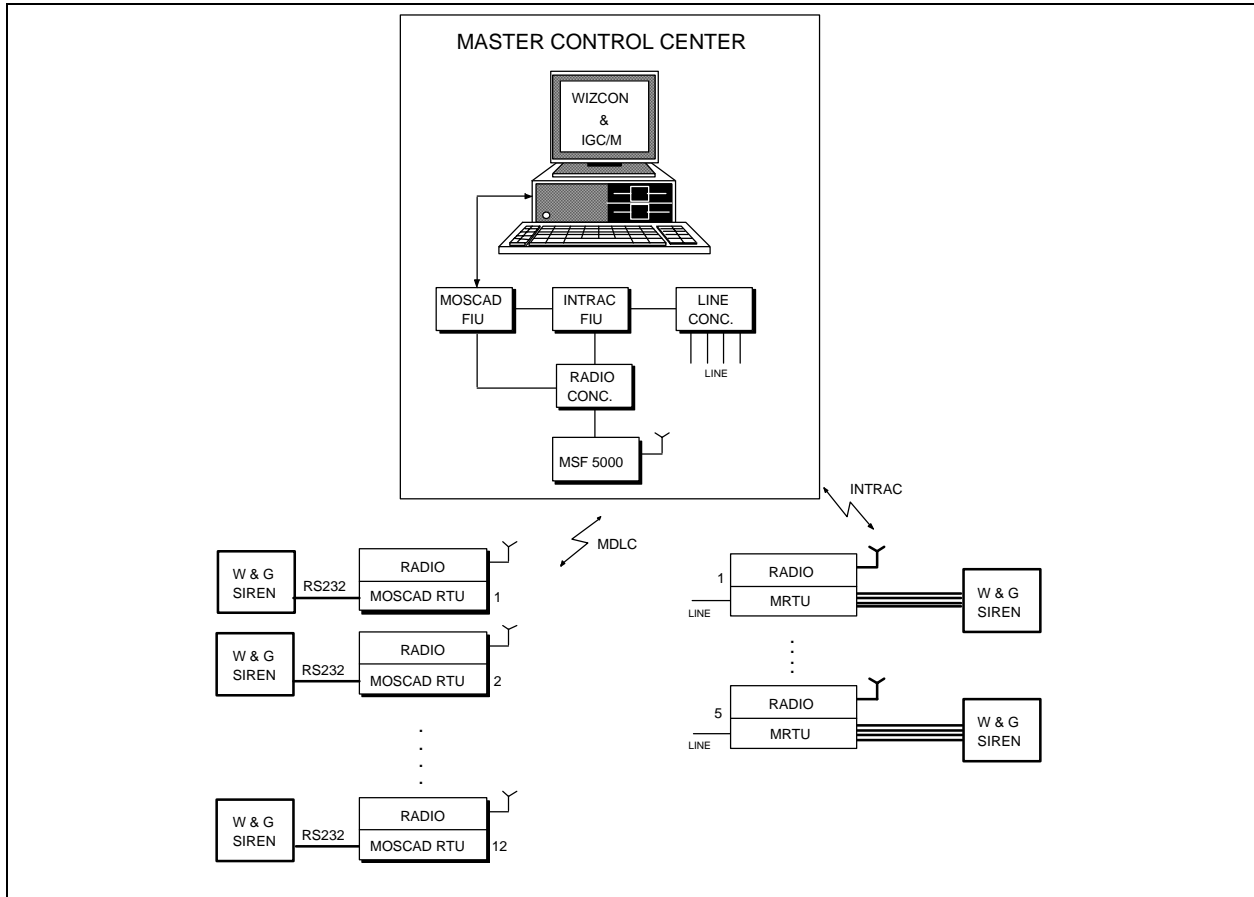


Siren SCADA Application

Project Description



GENERAL

The Taipei City Civil Defense has placed an order with Motorola Inc. for the supply of an alert and notification system in the Taipei city area (2.3 million citizens). The system was taken into full operation during summer of 1993.

The system will alert the citizens either by alarm or voice messages, in case of local emergencies such as, air pollution, chemical or nuclear radiation, etc.

The new system, based on Motorola's MOSCAD RTU, is an expansion of the existing system based on Motorola's MRTU and MSF 5000

conventional radio infrastructure. RTUs of both types interface to electronic sirens, manufactured by Wandel & Goltermann.

MOSCAD-MRTU, MDLC-INTRAC

In this project, Motorola has combined two generations of RTUs (MOSCAD and MRTU) into one complete system.

The INTRAC FIU unit includes an INTRAC Driver for MOSCAD, that interfaces between MDLC and INTRAC protocols.

The communication between the MOSCAD FIU and INTRAC FIU is RS-232 at 2,400 bps.

SYSTEM OVERVIEW

The central computer, based on IBM PS/2 with WIZCON SCADA software (in Chinese language) and IGC/M, controls the Wandel & Goltermann siren system. It can activate any number of sirens, in any, or all areas, to notify the public in specific locations. The central periodically interrogates the RTUs to monitor the siren sites.

The central includes a Radio Concentrator that switches the MSF 5000 base station between the MOSCAD FIU and INTRAC FIU. The Line Concentrator allows future connection of MRTUs to the INTRAC FIU via line.

The MRTUs are connected to the sirens via dry contacts, while the MOSCAD RTU controls the siren via one of its RS-232 ports.

The entire system is periodically tested silently without alarming the public.

CAPACITY & FUTURE EXPANSION

The system currently includes 5 MRTUs and 12 MOSCAD RTUs.

The Taipei City Civil Defense plans to expand the current system by another 100 sirens. □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication over radio
MDLC–INTRAC connectivity	Allows to expand an existing system without any modifications
Multi-protocol processor based on Motorola 68302	Allows multi-tasking operation with on-line network monitoring, traffic analysis, diagnostics, remote monitoring and error logging of the siren system
Chinese language support	Customer language support to provide ease of operation
24 VDC operation	Same voltage as siren system

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