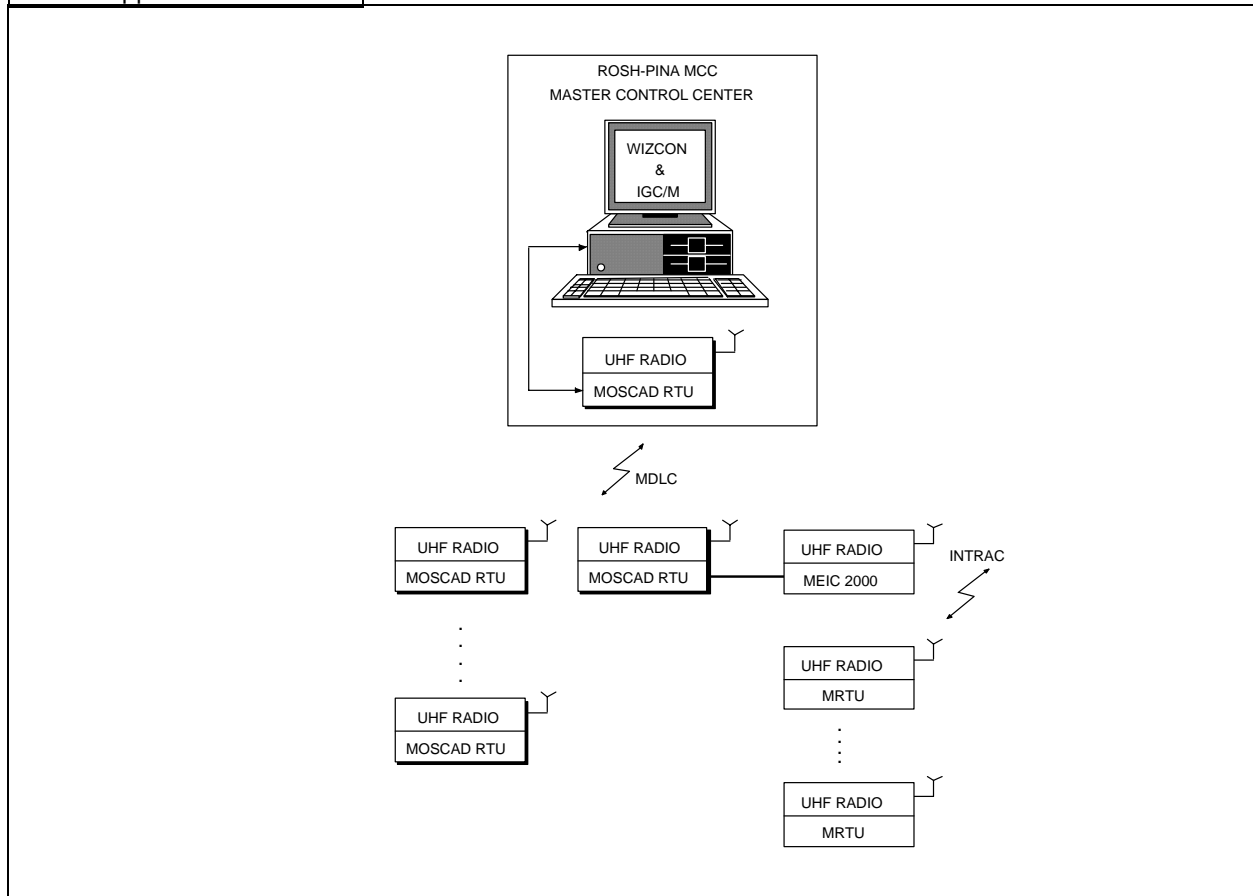


Fresh Water SCADA  
Application

## Project Description



### GENERAL

Mekoroth Ltd., the Israeli National Water Company, has placed an order with Motorola Inc. for the supply of an advanced radio control system for their water control stations installed in the Galilee and Golan Heights regions (northern part of Israel).

Mekoroth supplies 90% of the water in Israel – about 1.1 billion m<sup>3</sup> a year. Mekoroth is using Motorola SCADA systems since 1965, and today over 95% of its SCADA systems are Motorola's.

The new system, based on Motorola's sophisticated MOSCAD RTU, is an expansion of the existing system based on Motorola's MRTUs and ALRs (Alarm Reporters).

The MOSCAD RTU and MEIC 2000 units interface between the MOSCAD Control Center and MRTUs.

### MOSCAD–MRTU, MDLC–INTRAC

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

The MEIC 2000 unit includes an INTRAC Driver for MOSCAD, that interfaces between MDLC and INTRAC protocols.

The communication between the MOSCAD RTU and MEIC 2000 is RS-232 at 2,400 bps.

## CAPACITY & FUTURE EXPANSION

The complete system includes 5 stations (two MOSCAD RTUs in each station).

MOSCAD and its MDLC protocol allow the expansion of existing systems based on other vendors' RTUs, therefore, providing the system with more sophisticated and advanced features. □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication
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, on-line diagnostics, remote monitoring and error logging
Upload/download capability	Application program can be easily changed and downloaded to the RTUs in the field
Remote control of water pumps	Leak detection and faster response in case of emergency situations save precious fresh water
Remote diagnostics	Permits maintenance staff to identify and correct problems at the RTUs from any site in the system

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