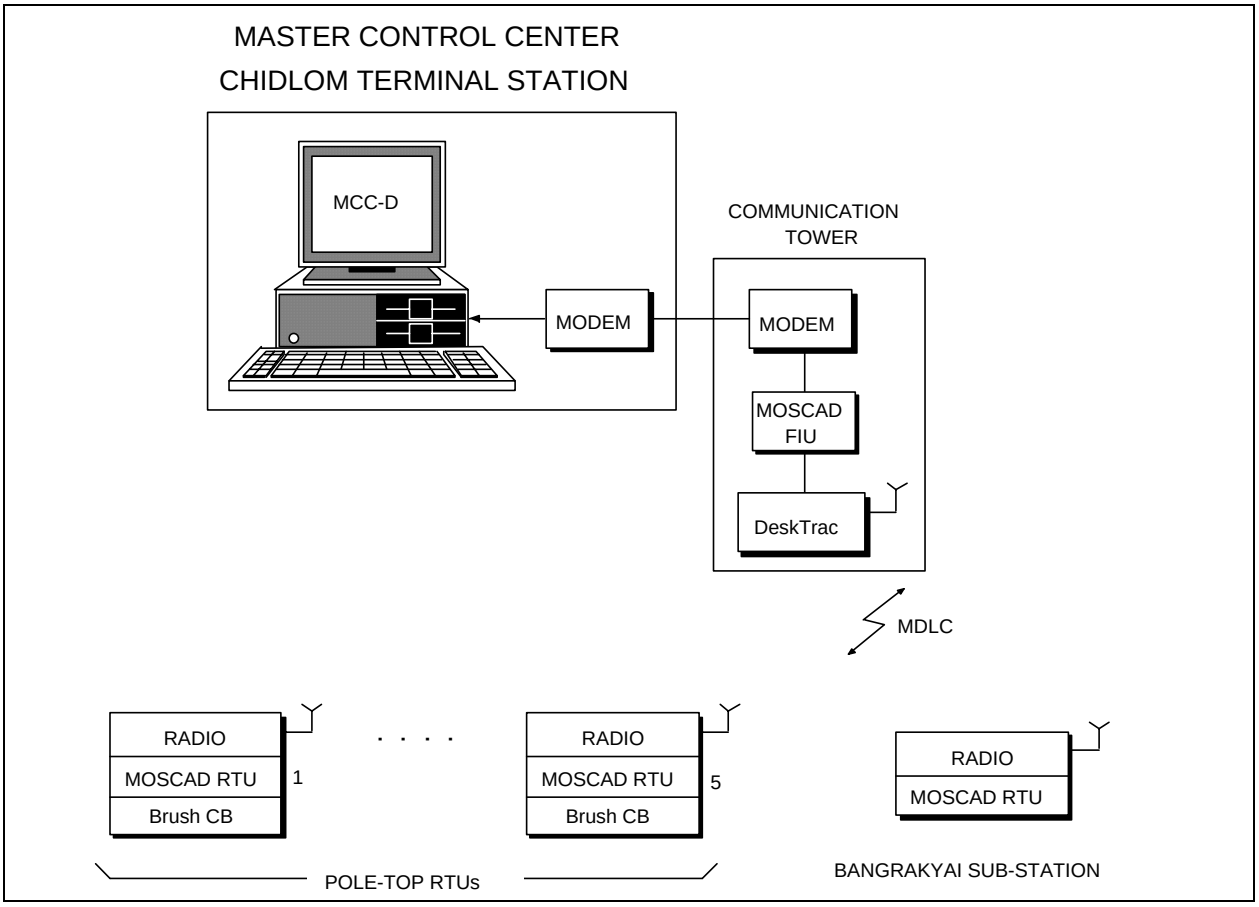
Metropolitan Electricity Authority

Distribution Automation (DA) Control System

Electricity Application

Project Description



GENERAL

Metropolitan Electricity Authority (MEA) of Bangkok/Thailand, has placed an order with Motorola Inc. for the supply of an advanced radio system to control 24 kV Brush automatic SF6 circuit breakers/reclosures and substations.

The new system is based on Motorola's sophisticated MOSCAD RTU, that is used in its pole-top configuration to control the automatic circuit reclosures.

The MOSCAD RTU increases the reliability, flexibility and performance of Medium Voltage feeder distribution systems.

MOSCAD & MDLC

In this project, the MOSCAD RTU performs sectionalizing, fault isolation and system restoration of the distribution feeder network. It integrates a special spring-loaded motor assembly for operating the circuit reclosure.

One MOSCAD RTU is used to control the sub-station located at Bangrakyai.

The MDLC communication is implemented over 2400-bps FSK radio link.

Using MDLC protocol (based on ISO/OSI seven layers reference model) over radio ensures efficient and reliable data communication.

The Master Control Center, located at the Chidlom terminal station building, uses Motorola's MCC-D DOS-based software to control the distribution system.

The MCC-D is connected via a modem to the MOSCAD FIU and DeskTrac desktop base station, located in a remote communication tower.

CAPACITY & FUTURE EXPANSION

The first stage of the project includes 5 pole-top RTUs and one sub-station RTU.

The second stage will connect another three systems in three different areas for a total of 200 pole-top RTUs. □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication that provides safety for the electricity distribution system
Remote monitoring & control	Improves service by restoring power to the majority of consumers in minimum time
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

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