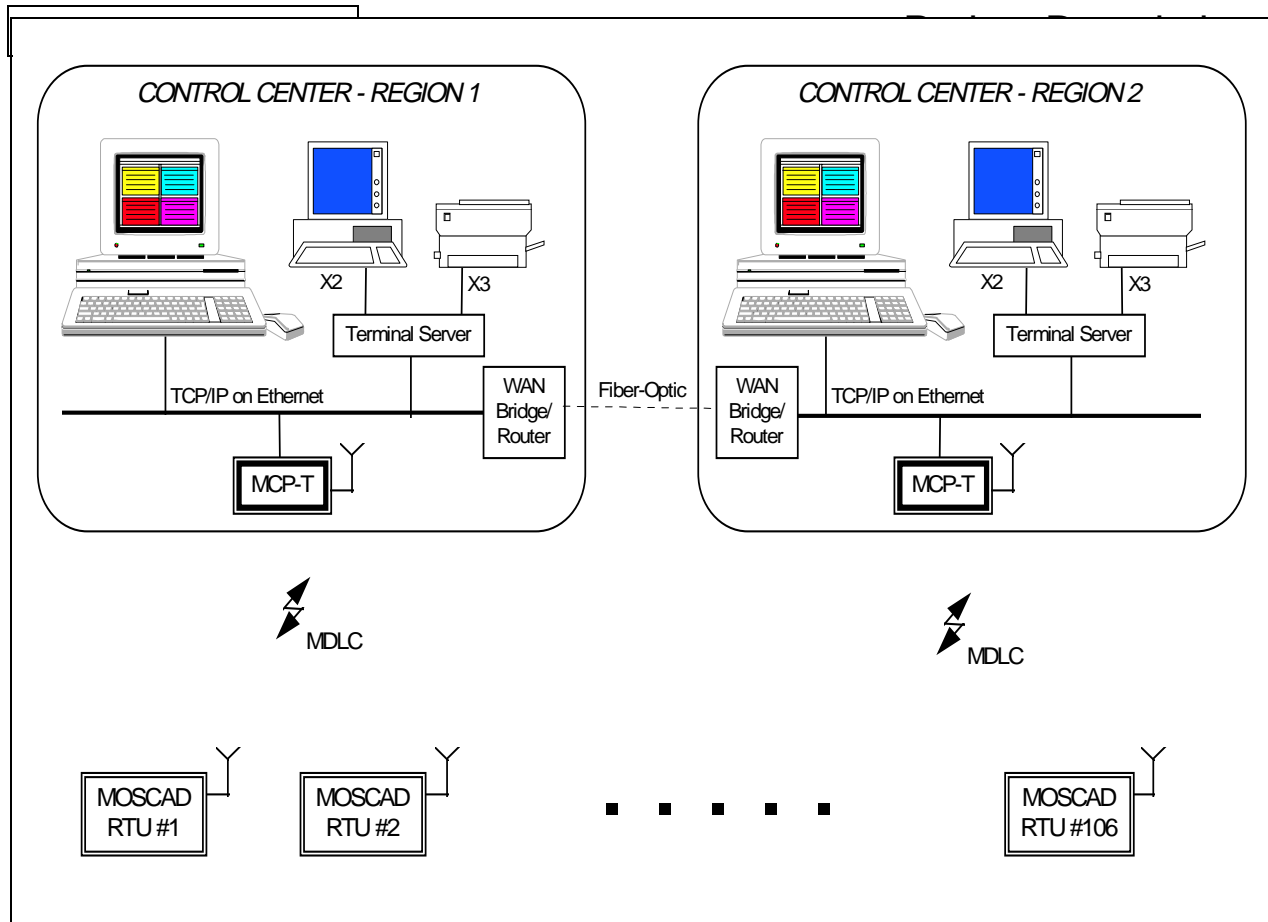


MOVICOM, Argentina Communication Monitoring System



GENERAL

CRM, one of the two operators of cellular communications in Buenos Aires, has placed an order with Motorola, for the supply of an advanced integrated communication monitoring system for their cellular infrastructure, which includes 106 cell sites (NAMPS) and several commercial offices.

The new system, based on Motorola's sophisticated MOSCAD RTU, monitors the large amount of auxiliary telecommunication devices in the infrastructure being used daily by CRM.

MOSCAD & MDLC

In this project, the MOSCAD RTU is used to manage the alarms generated by the equipment installed in every site, including: sophisticated telecommunication devices, power management equipment and security elements.

The MDLC communication is implemented over one frequency in the VHF band, and not using the cellular system for redundancy purposes.

Some RTUs also function as Store&Forward repeaters in order to provide full coverage.

Using MDLC protocol, based on ISO/OSI seven layers reference model, ensures efficient and reliable data communication.

SYSTEM OVERVIEW

The system comprises two Master Control Centers (MCC) and 106 cell sites.

The control centers are based on a custom Telecommunication Management software from TTI.

The control centers are linked to the MDLC network through the MCP-T, MDLC Gateway for TCP/IP.

At the sites, the MOSCAD RTU monitors all and controls some of the following equipment: power supplies, generators, power switch-over panels, microwave, multiplexers, and cellular equipment.

CAPACITY & FUTURE EXPANSION

The first stage of this project includes 106 MOSCAD RTUs, two control centers, and one MCP-T Gateway.

The system can be easily expanded by adding MOSCAD I/O modules as required by the customer. □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication for reporting alarms
Protocol Emulation Capability	Provides remote access to the internal alarms of the cellular devices
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 or modified and downloaded to the RTUs in the sites
Remote diagnostics	Permits maintenance staff to identify and correct problems at the RTUs from any site in the system

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