

www.merinctech.com



Intelligent Communications

mACS

Complete RoIP Solution

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- Provides full radio and cellular digital interoperability
- Provides networking to an unlimited number of LMRs (Land Mobile Radio)
- Provides interoperability between networks with no technological limitations
- Provides unlimited range to LMRs and subscribers by using the existing IP networks
- Supports: LMR's, iDEN, TETRA, P25, GSM, and land-line telephones
- Records and plays back all activity on controlled networks
- Is a cost effective solution for converting an existing radio network into a private wireless communication network with extensive geographical coverage

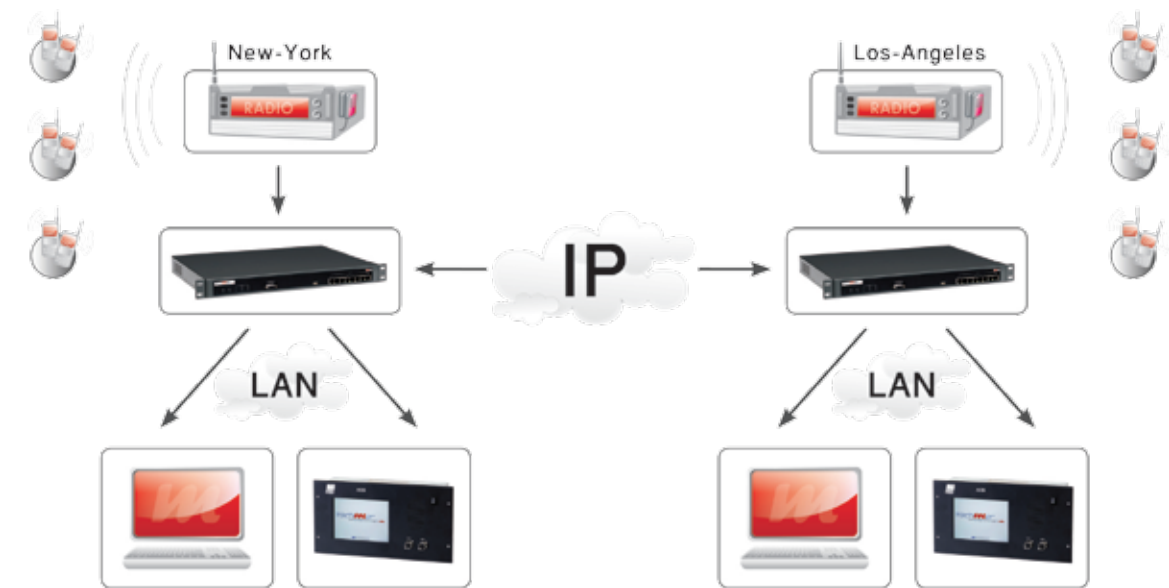
Description

mACS is a RoIP system that gives you full digital VoIP power with one flip of a switch and a private wireless network, for a fraction of the cost of cellular equipment.

It is a streamlined version of our Audio Control Server, offering efficient VoIP technology adapted for Land Mobile Radio (RoIP). mACS uses unique Network Bridging technologies to create an instant wireless conference-call network for up to 16 radios, cell phones, phone lines and other devices per location. This system is fully redundant, securing data at the command of a single Radio Gateway.

The mACS ACB (audio/video operator terminal) connects anywhere through the IP network. The mACS ACB allows operators to monitor several networks at once, and to transmit on any or all of them - subject to administrator defined schema. The mACS ACB allows configuration by touch screen and external PTT control and is equipped with two audio ports for dual operator speaker headsets.

mACS users can control and monitor the entire system with Mer Inc.'s Maintenance Work Station (MWS), using an Internet (Web-based) or Ethernet (network-based) control option. The MWS software provides multilingual capability and configuration while the system is offline or online.



mACS operates equally well as a stand-alone VoIP switch, and interfaces with other mACS hubs. The device can also be integrated on demand with an internal IP logger, offering real-time recording, streaming and archiving with virtually unlimited capacity.

Choice of configurations (rack-mountable 19"):

- mACS 2: for up to 2 radio/phone line elements
- mACS 5: for up to 5 radio/phone line elements
- mACS 8: for up to 8 radio/phone line elements
- mACS 10: for up to 10 radio/phone line elements
- mACS 16: for up to 16 radio/phone line elements

Features and Benefits:

- Based on field-tested VoIP technology
- Adjustment-free turnkey installation
- Modular and cluster architecture for custom scaling
- Capacity for decentralized operation
- Full redundancy with duplicated LAN and switching
- Merges radios, phones, LMR transceivers and other network components for seamless communication
- Connects with Radio Gateway for networking remote units
- Remote control over any IP network
- Access rights management per individual operator
- Industrial grade, 19" rack-mounted chassis
- Emergency cut-in transmission to ALL NETWORKS feature

Applications

- Command centers
- Air and sea traffic control
- Mobile tactical control
- Cost-effective two-way radio communication network
- Training and simulation communication
- Emergency dispatching
- Communication in harsh environments (mines, pipelines)
- MIL-SPEC compliant configuration available

