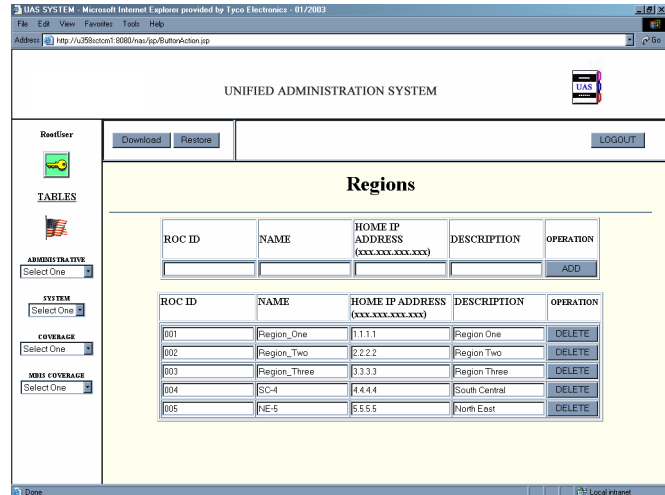


- *Fleet mapping*
- *Dynamic talkgroup setup for interoperability*
- *IP-based network administration tool built on World-Wide-Web technology*
- *Web-browser access providing an intuitive operator interface*
- *Implementation of a commercial-off-the-shelf relational database management system provides data integrity, preventing users from inadvertently corrupting the system*
- *User class-based security management*



Product Overview

The Unified Administration System (UAS) provides an open system interface to the difficult radio system task known as Fleet Mapping. Fleet Mapping is performed through different levels of administration classified as Resource Pooling, Resource Allocation, or Resource Provisioning. The design of the UAS eases the burden of radio system administrators by providing a tool with intuitive interfaces, integrity checking, and utilities. Customizable security schemes allow operation privileges to be defined on a user basis.

The UAS is implemented using a 3-tier approach consisting of the Network Administration Server (NAServer), the Network Provisioning Server (NPServer), and a Relational Database Management System (RDBMS). Each tier of the UAS may run on different machines or be co-located on the same machine. Access to the UAS is via a commercial off-the-shelf (COTS) web browser that has network connectivity to the system. The UAS is the centralized access point from which the system is administered. It is an integrated real-time administration tool based on a client-server architecture that allows multiple authenticated users at any Network Switching Center or remote location. Authenticated users administer network elements including IP

broadcast domains, voice gateways, end users, and mobile radios.

Key Features

The UAS provides administrative access to the system in the form of one of the following:

- Radio System Administration
- Resource Pooling
- Resource Allocation
- Resource Provisioning

System Administration

System administration refers to the tasks of security management such as managing administration user accounts, establishing regions within the system, and configuring voice group coverage for the system.

Resource Pooling

Resource Pooling refers to the task of establishing public and private domains of resources within the system. An example of this is establishing a domain of voice group priority classes from which lower level administrators may draw to establish their localized fleet maps. This model of drawing from established pools of resources helps to maintain data integrity throughout the system.

Resource Allocation

Resource allocation refers to the task of assigning ranges, or sub-domains, of resources from the established pools to a lower level administrator. An example of this is allocating a range, or ranges, of IP addresses to a lower level administrator who could then assign the addresses to network elements within their localized domain.

Resource Provisioning

Resource Provisioning refers to the task of dynamically provisioning elements within a low level administrator's domain with attributes from the ranges of available resources allocated previously. An example of this is assigning a radio a list of available voice groups which are provisioned real-time based on the previously established personality of the end user.

For More Information

For more information about this or any other M/A-COM Wireless Systems product, call toll free in the U.S. 1-800-368-3277. From outside the U.S. call 1-434-455-9223 (Asia Pacific), 1-434-455-9229 (Latin America and Middle East), and 1-434-455-9219 (Europe).

OpenSky

M/A-COM's OpenSky Wireless Private Network is a fully interoperable digital trunked communications network for public safety, utility, federal, transit, and industrial markets. OpenSky is a complete end-to-end Voice over Internet Protocol (VoIP) solution and employs packet technology to provide integrated voice and data. The OpenSky radio network is the only private land mobile radio communications system that provides clean integration of data messaging with trunked digital voice on the same RF channel. Integrated voice and data over Time Division Multiple Access (TDMA) allows users to perform multiple communication functions at the same time on one radio. The use of TDMA doubles call capacity by allowing two simultaneous voice calls per 25 kHz channel.

NetworkFirst

Public safety communications in today's world faces unprecedented challenges. More than ever, Homeland Security and Situation Readiness depend heavily on effective communication among federal, state, county, and local agencies. M/A-COM's NetworkFirst answers the call for an emergency communications network that provides local, regional, state, and even nationwide connectivity. NetworkFirst uses cost-effective Internet Protocol (IP) packet switched technologies to provide a fast, cost-effective means of achieving multi-agency interoperability, regardless of radio type, frequency, or mode. NetworkFirst creates the most technologically advanced permanent communications network available in the industry today, providing a technology backbone that is extremely flexible, allowing communications requirements to expand – without a wholesale system changeout.

P25^{IP}

M/A-COM's P25^{IP} (P25 to the power of IP) is the first completely Internet Protocol (IP)-based mobile radio communications system developed for users requiring the secure digital voice and data capabilities of Project 25 (P25). P25^{IP} is part of a portfolio of solutions that M/A-COM offers for wide-area communication systems – each of which is capable of meeting the communications requirements of public safety, public service and first responders. Within the M/A-COM portfolio, the P25^{IP} network provides an excellent fit for those agencies which have lower user densities (few users covering larger geographic areas) but still require feature-rich secure voice and data communications. P25^{IP} is also particularly appropriate for users operating with non-exclusive VHF and UHF frequencies. For federal users, P25^{IP} meets the Congressional and NTIA mandates for the narrowband (12.5 kHz) migration.

General Specifications

Dimensions (H x W x D):

4.6 x 18.0 x 17.6 in.

11.7 x 45.7 x 44.6 cm

Weight (approximate):

34.2 lb (15.5 kg)

Hardware (Minimum Configuration)

System:

Sun Blade™ 150 workstation

650 MHz UltraSPARC® Iii processor

512 KB L2 on-die cache

Two 10/100BaseT Self-Sensing Ethernet Ports

PGX64 Graphics Accelerator card

Memory:

512 MB RAM

Available Disk:

40 GB 7200 rpm EIDE disk drive

Peripherals:

48X CD-ROM drive

Floppy disk drive

Software

System Software:

Sun Solaris™ 9 Operating System, Sybase 12.5.1

Environmental

AC Power:

90-132 VAC or 180-264 VAC

47-63 Hz, 5.0 Amps (rms) maximum

DC Output:

250 Watts maximum

Operating Environment:

+41 to +95°F (+5 to +35°C), 40 to 80% relative humidity at +95°F (+35°C), noncondensing

Nonoperating Environment:

-4 to +140°F (-20 to +60°C), 30 to 90% relative humidity at +140°F (+60°C), noncondensing

Acoustic Noise:

4.5 bels/5.0 bels (idling/operating)

Regulatory Data

Meets or exceeds the following specifications:

Safety:

UL/CSA-60950, EN60950, IEC950, CB Scheme with all country deviations, IEC825-1, 2 and CFR21 part 1040

Ergonomics:

EK1-ITB-2000

RFI/EMC:

EN55022/CISPR22 Class B, FCC CFR47 Part 15 Class B, EN61000-3-2, EN61000-3-3

Immunity:

EN55024

X-ray:

DHHS 21 Subchapter J, PTB German X-ray Decree

Regulatory Markings:

CE, FCC, ICES-003, C-tick, VCCI, GOST-R, BSMI, EK, UL/cUL, TUV-GS, E-star

Power Management:

Energy Star compliant

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ECR-7345

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