TECHNICAL NOTE 04-96

MOBILE MAP PLUS WITH TRUNKED RADIO INTERFACE (MMP/TRI)
TECHNICAL DESCRIPTION

INTRODUCTION

*The EMPACT Series Mobile Map Plus System which allows the MX-1000/FPS Fence Protection System wireless communication of alarms to roving vehicles and remote fixed locations has been available for many years. The **Mobile Map Plus System with Trunked Radio Interface (MMP/TRI)** has been specially developed to provide the same wireless communications using the trunked radio system already installed at a facility rather than requiring a separate radio frequency allocation. The MMP/TRI System interfaces to the facility-wide trunked radio and requires certain components from the trunked radio system manufacturer.*

FEATURES

The MMP/TRI System provides the same operator features and functions as described on the standard Mobile Map Plus Mobile Radio-Graphic Display System. Please refer to the standard system brochure. However, the radio specifications are removed because the trunked radio transmission system is being utilized. The typical installation and wiring is as shown in Figure 1-1 attached.

OPERATION

MMP/TRI system operation is the same as described in the standard MMP System brochure and manuals. Operator interface, electrical interface to the fence protection system, and MX-1000 control operation is the same as for standard systems.

INSTALLATION

MMP/TRI system installation differs from the standard MMP system in that certain components of the trunked radio system manufacturer are required. The MMP/TRI electrical interface and firmware have been changed to be compatible with the manufacturers of trunked radio systems. Please refer to the MMP/TRI System installation manual for more detailed installation information. Provided on the following page is a list of typical components for a complete MMP/TRI system installation including 24 zones of perimeter fence protection and 3 mobile radio-graphic displays. Because the current MMP/TRI systems have been installed in conjunction with the Motorola trunked radio system, also listed (for information only) is the typical Motorola trunked radio equipment requirements. *Do not* utilize this equipment list for installation planning. Contact **CDT** and Motorola (or the manufacturer of the trunked radio system used) for the exact material requirements for each installation site.

MOBILE MAP PLUS SYSTEM COMPONENTS

Item	Part Number	Typical Qty
Receiver/Display (8 zone)	MPI2500	3
Includes: Wiring harness		
Additional 8-Zone Display Modules	MPI2510	6
Display Artwork	MP1000	1
Encoder/Interface (8-zone)	MPI1510	1
Includes: Power supply module		
Wiring harness		
Additional 8-Zone Encoder Modules	MPI1510	2
MX-1000 System Interface	MMI	1

MOTOROLA TRUNKED RADIO COMPONENTS

Item	Part Number	Typical Qty
(*Mobile Configuration*)		
UHF Trunked Maxtrac Mdl C3 (25W)	D34MWA5GC3AK	3
Omit conventional operation	B827	3
Accessory plug and pins	HLN9457	3
(*Base Station Configuration*)		
UHF Trunked Maxtrac Mdl C3 (25W)	D34MWA5GC3AK	1
Omit conventional operation	B827	1
Delete accessories	B90	1
Accessory plug and pins	HLN9457	1
Antenna	RAE4012AMB	1
Control Station Package	NLN3035	1

PROGRAMMING MATERIAL/ACCESSORIES

Item	Part Number	Typical Qty
Radio service software	RVN4043L	1
Maxtrac programming cable	30-80070N01	1
Software Installation and Programming	—	1
Maintenance/Guarantee (2 yrs.)	—	1
24-hr./7-day radio maintenance response		
Radio Engineering/Modification	—	1