



FAST AND EFFICIENT TETRA RADIO MANAGEMENT

MOTOROLA TETRA INTEGRATED TERMINAL MANAGEMENT SYSTEM

Manually programming a fleet of radios is not just time consuming, it also reduces your productivity. By centralising and automating radio programming, software maintenance and upgrades, our integrated system answers the call for a simplified and efficient approach to managing radios in the field.

CHOOSE MOTOROLA iTM

- Deliver fast, flexible and controlled changes and upgrades to part or all of your radio fleet
- Seamlessly introduce enhancements and keep your radios in service more of the time - all with a rapid return on your investment
- Simplify your installation with a solution that combines charging and programming of radios
- Deploy a robust and scalable solution - so you can start small and grow to as much as 150,000 radios
- View the status of the radio fleet and your radio managers' activities, at a glance

Motorola's iTM solution uses a job issuing system to deliver efficient terminal management over a network. Jobs include a wide range of routine tasks such as fleetmap changes, software upgrades and activation of purchased features.

Based on a centralised system architecture, iTM uses a server to control programming jobs. This centralised architecture delivers a number of benefits. It greatly simplifies the cancelling and editing of jobs. It also makes it easy to have jobs transferred to remote stations when needed. A further benefit is that multiple radio fleet managers (client users) can set up versatile programming jobs concurrently, from any convenient location.

SIMPLIFIED ASSET MANAGEMENT

To simplify radio terminal audits, we've created a central repository for storing radio programming status. This can be easily integrated with your existing asset management systems through the XML export facility or even through the optional SQL database view. Existing asset management systems can also link with iTM to define programming jobs directly via the XML data import facility.

INTEGRATION WITH ESTABLISHED WORK PRACTICES

iTM is perfectly suited for front line operation with handheld radios. Your staff members can simply place their radios into designated programming stations at the end of a work shift – so when updates are required, these can occur automatically without impacting workforce productivity.

STANDARD FEATURES

- Flexible configuration changes, software updates or feature activations to one or multiple radios.
- Customised single and multi-way programming stations available to suit a range of deployment choices.
- Clear on-screen indication of programming status simplifies programming in the operational environment.
- Allows multiple pre-defined radio profiles to be applied to one or more radios for flexible and rapid terminal re-configuration.
- Time scheduled and repeatable programming jobs to set up radios for special events or perform programming "out of hours". Radios will also respond to programming jobs that occur whilst they are in a programming station.
- Audit by user name, the creator of programming jobs to diagnose errors or aid administrator training.
- Remote software deployment to programming stations via Microsoft SMS compliant tools for centralized management of iTM software.
- System expansion and new terminal features can be ordered on line and implemented centrally via a license key¹.
- Enhanced radio configuration editing facilities - includes the ability to prepare multiple radio configuration templates in advance of a programming operation. These templates can also be easily upgraded to support newer firmware versions. [new in iTM R5]
- Simplified support of new radio firmware versions through Release Packets. Release Packets are new in iTM R5 and replace Service Pack Updates.

TERMINALS AND SOFTWARE SUPPORTED

Software versions	Terminal
MR5.9/5.9.1/5.10/5.11.1/5.12/5.12.1/5.13.1	MTH800/MTP850/MTM800/MTM800E
MR5.9.2/5.9.3/5.11.1/5.11.1E/5.12/5.12.1/5.13.1/5.13.3	MTM800E
MR5.9.10/5.11/5.11.1/5.12/5.12.1/5.13.1/5.13.3	MTP850 Class 3L (1.8W)
MR8.6.x/5.10/5.11/5.11.1/5.12/5.12.1/5.13.1	MTP810/850Ex 380Mhz
MR5.10/5.11/5.11.1/5.12/5.12.1/5.13.1	MTP810/850Ex 800Mhz
MR5.9.11/5.11.1/5.13.1	CEP400/MTP830
MR9.6X/9.11/9.12/5.13.1	TCR1000
MR5.10R/5.11/5.12/5.12KP/5.12.1/5.12U/5.13.1	MTP850 FuG/S, MTP830 FuG/S
MR6.7/6.7.1	TOM100/MTC100
MR10.1/10.2/10.3	MTM5400/MTM800FuG

Note: This list is not exhaustive. Contact your Motorola representative to confirm terminal support of specific software versions.

FLEXIBLE SYSTEM CONFIGURATIONS

CPSSM:
simple to install on a Windows PC, this backoffice programming tool is suited to small fleets of less than 200 radios.
iTM One:
incorporates the powerful radio configuration editing capabilities of CPSSM and is installed on a single Windows PC. It is suited to bulk programming for up to 2000 radios at a single site.
iTM Enterprise:
In addition to the functions of iTM One, this configuration introduces a centralized database and enables radio management operations over an IP network. It is suited to bulk programming for up to 150,000 radios across dispersed sites.

SPECIFICATIONS – iTM ENTERPRISE (SERVER) VERSION

System capacity:
16 Connections per programming PC (typical)
100 Clients (management program) per system (max.)
1000 Proxy (programming software) per system (max.)
1000 programming jobs per hour (typical), 3-8 minutes per radio (typical)
(dependent on job type and number of radios per proxy PC)

¹ Contact your Motorola representative to check availability of this feature in your country.
² See www.motorolasolutions.com/traces for further information.

OPTIONAL FEATURES

- **Network Coverage Logging:** to assess network coverage, iTM can be used to extract diagnostic data from Motorola TETRA radios. This data can be automatically transferred to our TRACES² application in order to assess network quality.
- **Shared server with versatile user roles:** a permission based system for radio terminal management. The flexibility of the permissions based system means that discrete user groups can co-exist independently on the same system managed by their own client users. Further, highly configurable programming rights can be set up for each radio manager (client user).
- **Enforced templates:** comprise "Network" templates that define how the radio behaves on the network - and "fleetmap" templates - that define the talk groups and related parameters that a radio can access may be created (by privileged client users) for use by selected client users.
- **Notifications:** allows radio managers to create notifications, such as email messages, to inform radio users that a programming job is due or to provide other relevant information. The notification addresses of the users are stored in a "transmitter" program residing on the iTM server or on a separate PC which communicates with the notification system.
- **Import function:** enables interfacing with external applications such as asset management systems to avoid the double entry of information. When linked to the Motorola integrated Billing & Administration System (MiBAS), this delivers a radio terminal programming and infrastructure provisioning solution for Dimetra IP network users.
- **Export function:** enables on-demand export of programming operation and radio activity information to existing asset management systems. Options include XML or database view, the latter being especially suited to SQL based systems.

Proxy specification

Minimum hardware:
Intel Pentium 1.5 GHz processor
10 GByte of free hard disk space
One available USB 2.0 port per radio connection
1 GBytes RAM and (for connecting up to 6 radios)
2 GBytes RAM (for connecting up to 16 radios)
Operating System:
Windows XP SP2 or SP3 32 bit, Vista 32 bit (no UAC), Windows 7 32/64 bit

Client specification

Minimum hardware:
Intel Pentium 1.5 GHz, 1 GByte RAM and 10 GByte of free hard disk space
Operating System:
Windows XP SP2 or SP3, Vista 32 bit (no UAC), Windows 7 32/64 bit, Windows Server 2003/2008

Server specification

Minimum hardware (to support 20,000 radios):
Intel Xeon 2.66 GHz processor 4 GBytes RAM and 150 GBytes of free hard disk space
Minimum Hardware (to support 50,000 radios):
Intel Xeon 3 GHz, 8 GBytes RAM and 250 GBytes of free hard disk space
Operating System:
Windows 2003 or 2008 Server

SPECIFICATIONS - iTM ONE, SINGLE PC VERSION

Server, client and proxy installed on one PC with up to 12 radio connections

Minimum Hardware:
Intel Pentium 2.5 GHz, 2GBytes RAM and 10 GByte of free hard disk space
USB 2.0 must be supported (per concurrent radio connection)
Operating System:
Windows XP SP2 or SP3 32 bit, Vista 32 bit (no UAC), Windows 7 32/64 bit

For further information about iTM, please contact your Motorola representative or visit business.motorola.com/tetra/itm-ROI/index.html

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