



FAST AND EFFICIENT TETRA RADIO MANAGEMENT

MOTOROLA 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 55,000 radios
- View the status of the radio fleet and your fleet 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 many radios.
- Suited for small and large radio fleets of up to 55,000 radios.
- Supports current and future Motorola TETRA radios.
- Customised single and multi-way programming stations available to suit a range of deployment choices.
- Clear on-screen indication of programming status allows programming in the operational environment, saving cost and increasing efficiency.
- 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, particularly suited when radios are left in intelligent lockers during off duty periods.
- Program new radios to allow easy additions to the fleet or replace devices out for repair.
- 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 to allow simple deployment of iTM to remote programming stations.
- System expansion and new terminal features can be ordered on line and implemented centrally via a license key (new in iTM R4).
- The iTM Service Pack Update feature allows support for new radios or radio terminal software to be added to the system simply by applying a downloadable patch at the server. This avoids the need to spend time or effort to update the Client (management) or Proxy (programming) software at the remote end-user locations.

TERMINALS AND SOFTWARE SUPPORTED

Software versions	Terminal
MR5.5.x/5.6.x/5.7/5.8/5.9/5.9.1/5.10/5.11.1/5.12/5.12.1	MTH800/MTP850/MTM800/MTM800E
MR5.9.2/5.9.3/5.11.1/5.11.1E/5.12/5.12.1	MTM800E
MR5.9.10/5.11/5.11.1/5.12/5.12.1	MTP850 Class 3L (1.8W)
MR8.6.x/5.10/5.11/5.11.1/5.12/5.12.1	MTP810/850Ex 380Mhz
MR5.10/5.11/5.11.1/5.12/5.12.1	MTP810/850Ex 800Mhz
MR5.9.11/5.11.1	CEP400/MTP830
MR9.6.x	TCR1000
MR5.10R/5.11/5.12/5.12LKP/5.12/5.12U	MTP850 FuG/S, MTP830 FuG/S
MR6.7/6.7.1	TOM100/MTC100
MR10.1	MTM5400/MTM800FuG

Note: Service Pack Updates for the iTM server will be made available when any new terminal software is released, that is not included in this table.

SPECIFICATIONS – iTM ENTERPRISE (SERVER) VERSION

System capacity:
Radios per system 1 to 55,000
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)

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

OPTIONAL FEATURES

- **Network Coverage Logging (new in iTM R4):** iTM links to our TRACES (TETRA RF Automated Coverage Evaluation Solution) service which correlates coverage failure information with GPS coordinates obtained directly from the end user radio terminals. The result is a report that lets you identify the geographical locations associated with particular failure conditions.
- **Shared server with versatile user roles:** iTM uses a permission based system and terminal management structure. Folder-based permissions assigned by privileged users assign each client user appropriate access to radios and suitable programming rights for them. In this way discrete user groups may co-exist independently on the same system managed by their own client users. Further, highly configurable programming rights can be set up for each system manager (client user).
- **Enforced templates:** these 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 your radio system managers to create notification messages to inform radio users that a programming job is due or to provide other relevant information. The notification address of the users - for example the email address - is stored in a "transmitter" program residing on the iTM server or a separate PC which communicates with the notification system.
- **Import function:** for new radios, templates or programming jobs, this feature facilitates integration with asset management systems. It enables an integrated system and avoids double-entry of information. When linked to the Motorola integrated Billing & Administration System (MiBAS), this delivers a total terminal programming and infrastructure provisioning solution for DIMETRA IP users.
- **Export function:** this capability is ideal for on-demand export of programming operation and radio activity information to existing asset management systems. You have a choice of either XML or database view, the latter being especially suited to SQL based systems.

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
Capacities:
Maximum number of terminals 1000
Minimum Hardware:
Intel Pentium 2.5 GHz, 2GBytes RAM and 10 GByte of free hard disk space
USB 2.0 must be supported
Operating System:
Windows XP SP2 or SP3 32 bit, Vista 32 bit (no UAC), Windows 7 32/64 bit

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