

METRO REGION
800 MHz Trunked Regional Public Safety Radio System
Standards, Protocols, Procedures

Document Section:	1. Management of System	Radio TOC Recommended
Sub-Section:	METRO 1.8.0	
Procedure Title:	Moves, Additions and Changes	Date: 5/24/01
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1. Purpose or Objective

To establish the procedure for approval of moves, additions and changes (MACs) to the regional public safety radio system.

2. Technical Background:

- **Capabilities**

- **Constraints**

3. Operational Context:

Since changes to the regional public safety radio system may affect more than one participant, changes and upgrades will need to be reviewed for possible performance or cost impact to some or all users of the system.

Some hardware/software changes may require that the changes be implemented region-wide. This could require all system and sub-systems to be upgraded at the same time in order to implement the change. With the different system owners involved agreement may not be reached on the need for the change or there may not be the ability of all the owners to arrange for funding of the change at the same time.

Some MACs may cause an incremental increase in required system resources beyond what is available in the system. For these MACs there could be a significant cost in obtaining the resources required.

The following is a listing of some but not all of the possible MACs that may occur with the system:

Non Participant initiated

- Requests to operate on system, including approval of fleetmap
- Requests to add sub-system and join system, including approval of fleetmap
- Request for ancillary use of excess capacity on the metro area backbone

Participant initiated

- Request for ancillary use of excess capacity on the metro area backbone
- Request for system software upgrades for feature additions
- Requests to change subsystem, additional channels, site relocation
- Requests for more radio or talkgroup ID blocks (see ARMER Standard 1.8.0)
- Request for additional logger ports
- Requests for new user categories which were not anticipated or included in the original Radio TOC-approved plan
- Requests for additional consoles
- Requests which change previously approved connections to the ARMER system, i.e. port connections, microwave connections, logging connections
- Requests for moves, additions or changes to add bi-directional amplifier systems and/or distributive antenna systems.

Infrastructure equipment changes and changes initiated by upgrades (see ARMER Standard 1.8.0)**Regulatory change initiated**

- FCC
- State legislation

It is difficult to conceive of or list all of the possible changes that may occur to the system. As System Managers become aware that changes or upgrades are required or may be required to the system they must submit requests or make notification of the changes or upgrades to the Metropolitan Emergency Services Board (MESB).

4. Recommended Protocol/ Standard:

Request for moves, additions or changes (MACs) or ancillary use of excess capacity to the regional portion of the ARMER system shall be submitted in writing to the MESB. The request shall include full description of the MAC, along with any costs associated with the MAC.

5. Recommended Procedure:

Routine requests shall be submitted to the appropriate system or sub-system administrator. If the resources are available at the system or sub-system level the request will be handled internally. If

additional resources are required from the system a request shall be forwarded to the MESB and/or the Statewide System Administrator.

The MESB will forward the request to the Radio Technical Operations Committee (TOC) for review and recommendation.

A complete review will be made by the Radio TOC to determine:

- Technical and operational impact to current system performance, which system or subsystem impacted.
- Conformance with the MESB and ARMER standards.
- Cost impact to the MESB and current participants.
- Are there other alternatives?
- Impact on future system capacity and plans.

The Radio TOC will return its findings to MESB along with recommendations.

The MESB may approve, modify or deny the request. If approved, the MESB will determine how the MAC is to be paid for and any cost allocations to system participants as outlined in section 6 of the system standards manual.

Requests for MACs that have been approved by the MESB that have an impact on system capacity or performance of the regional backbone infrastructure or have cost implications to MnDOT shall be forwarded to MnDOT for approval. (This is to be done as outlined in the co-operative agreement between the MESB and MnDOT.)

If the MAC is approved a contractor agreement may be required by the MESB, and if so it will be negotiated and implemented with the affected parties.

6. Management

The appropriate System Manager will be responsible for the routine day to day moves changes or additions within their appropriate system or subsystem.

The MESB is responsible for approval of MACs that impact the regional portion of the ARMER system.