

Subject: Minimum System Standards

Date Issued or Revised: January 17, 2008

Date Review: February 2009

4.1.1 Minimum System Standards

I. Subject and Purpose

The purpose of this policy is to provide minimum design criteria and establish certain standards for the maintenance, development and ongoing construction and expansion of the Michigan Public Safety Communications System (MPSCS). The MPSCS was built to a set of standards as specified in the original system contract with Motorola. It is our policy to maintain or improve the integrity of the original system design and incorporate the latest Project 25 suite of standards when appropriate.

Any modification, addition or integration will be compatible and perform individually and as an integrated system in accordance with the specifications and representations stated in the current State of Michigan/Motorola Contract for the MPSCS and not degrade the performance of the existing system. Changes, additions or any integration to the system should be viewed as an enhancement and necessary to meet new requirements. There has been no attempt to include or address every standard or situation in this policy however an addendum may be attached to summarize certain standards and clarify others that have been changed or modified since the original contract.

It is understood that Motorola or Alcatel or other vendor integrated equipment and products may change or be substituted for products of more recent design. This shall be allowed provided that any such changes, modifications and substitutions, under normal use shall not materially or adversely affect physical or functional interchangeability or performance, except where there is prior written agreement between the Parties that specific characteristics will be so affected. This shall apply to the 800 MHz ASTRO 25 Trunked Radio System, the Telecommunications Backbone Network (TBN), the Alarm and Control System (ACS) and the Tower Site Infrastructure.

II. Procedures and Guidelines

A request to deviate from minimum system standards should be submitted in writing to the MPSCS Director. Requests shall be accompanied by samples, descriptive literature, and engineering information as necessary to fully identify and allow appraisal of the request.

It is the responsibility of the Engineering Manager to seek input from all affected parties on any deviations from these standards.

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Any integration or migration plans if applicable must address the Project 25 Standard Suites including but not limited to the following:

- A. Common Air Interface
- B. Trunking
- C. Encryption
- D. Mobile Data Transmission
- E. Sub-System Interface
- F. Over-The-Air-Rekeying (OTAR)

Summary

There are standards defined for the 800 MHz ASTRO 25 Trunked Radio System, the Telecommunications Backbone Network (TBN), the Alarm and Control System (ACS) and the Tower Site Infrastructure within the State of Michigan/Motorola Contract for the MPSCS. The standards within this Contract for the MPSCS will be adhered to unless specific standards have been waived or new standards have been developed and provided in this document as an addendum.

- III. Responsible Party
 - Engineer Manager
 - A. Contact for Questions
 - Engineer Manager
 - B. Phone, Fax and Email Addresses
 - 517.333-5006
 - 517.336-6222 (fax)
 - kenealyp@michigan.gov
- IV. Applicable Forms
- V. Termination or Review Responsibility
 - MPSCS Director
- VI. Linkages to Other Relevant Data
 - Maintenance Standards