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United States Government
Memorandum

To: William F. Caton
Acting Secretary

From: *K* James R. Keegan
Chief, Domestic Facilities Division
Common Carrier Bureau

Subject: CC Docket 94-102, Revision of Commission rules to ensure compatibility with enhanced 911 emergency calling systems

Date: October 28, 1994

The attached documents relate to matters addressed in the above-referenced docketed proceeding. They are hereby submitted for inclusion in the record of that proceeding.

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TR45

**Emergency
Services**

*Joint Experts Meeting
Report*

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1. Executive Summary

The TR45 Joint Experts Meeting (JEM) on *Public 800 Mobile and Personal Communications* Support of Basic 9-1-1 (9-1-1) and Enhanced 9-1-1 (E9-1-1) Emergency Services was held in Chicago, IL. The JEM was convened on August 1, 1994 at 9:07AM and was adjourned on August 5, 1994 at 11:47AM. Terry Jacobson (AT&T) was the chair and Jeff Crollick (GTE) was the co-chair.

The purpose of the JEM was to:

- Define and prioritize the Emergency Services call taker features for **Wireless Cellular**,
- Define the requirements for the information flow between the Wireless System and the Public Safety Answering Point (PSAP), and to associate this information flow with the 9-1-1 call by the Mobile Station (MS). MS is a collective term that includes vehicular, portable, transportable, fixed, aircraft and other wireless subscriber stations.

The outcome of the JEM was:

- A prioritized list of Emergency Services call taker features.
- The mapping of the call taker features to four evolutionary paths:

Path	Wireless Cellular System	Mobile Stations	9-1-1 E9-1-1 System
A	Existing	Existing	Existing
B	Expanded	Existing	Expanded
C	Enhanced	Existing	Enhanced
D	Enhanced	Expanded or Enhanced	Enhanced

Existing: No change to existing equipment or protocols.

Expanded: Minor changes to existing equipment or protocols.

Enhanced: Major changes to existing equipment or protocols.

- The information elements needed between the Wireless System and the Emergency Services System to support the call taker features.
- The identification of radio location techniques that may provide more accurate Mobile Station location information.

The views expressed in this report represent an evolutionary path. The public safety and cellular service provider communities each have a unique set of challenges that includes economic, operational and

technological feasibility. These factors should be considered in the use of this report.

2. Introduction

2.1 Background

The basic 9-1-1 (9-1-1) and Enhanced 9-1-1 (E9-1-1) systems in existence today have been designed to provide rapid response to calls for emergency services from wireline subscribers. Basic 9-1-1 Emergency Services Systems establish routing of calls to a Public Safety Answering Point (PSAP). E9-1-1 provides added capabilities including selective routing of a call to the appropriate PSAP for rapid response to emergency calls and the display of calling number, address, and in most cases, the name of the subscriber at the calling number. However, these Emergency Services Systems do not address the unique characteristics of wireless communications.

The mobile nature of wireless communications and the unique characteristics of Radio Frequency (RF) propagation may require modification of existing Emergency Services Systems and the development of special capabilities in wireless systems.

Emergency services access (9-1-1/E9-1-1) by a wireless caller requires that the MS location information (at least the serving cell site or sector) be used to assist in routing the call to the appropriate PSAP. The location information may be used to dispatch an emergency vehicle to the incident site.

2.2 Perspective

The views expressed in this report represent an evolutionary path. The public safety and cellular service provider communities each have a unique set of challenges that includes economic, operational and technological feasibility. These factors should be considered in the use of this report.

2.3 JEM Methodology

Tutorials were presented on Mobility, Emergency Services, Current Industry Practices, TR45 Standards, and Emergency Services for Wireless Cellular. The tutorials established a common frame of reference and terminology for the JEM participants.

The tutorials and contributions provided a basis for discussion of:

- Call taker features and feature priorities.
- Information flows between the Wireless System and the Emergency Services System.

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