

# REVISION HISTORY

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Revision	Date	Remarks
0	October 1997	Initial Publication

## NOTE

The unique numbering system assigned to these documents is intended to reflect their hierarchical structure.

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# 1. INTRODUCTION

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## 1.1 OBJECTIVE

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This is one of a series of recommendations titled

“WIRELESS ENHANCED EMERGENCY SERVICES”

which provides a solution for the limited capabilities of Wireless Enhanced Emergency Services. These capabilities include:

- provision of base station, cell site or sector identification information
- subscriber identification
- callback
- reconnect

## 1.2 SCOPE

---

This document defines the range of application of the current issue of the series. It focuses on overall objectives and basic assumptions. Procedural details are presented in the other recommendations.

## 1.3 ORGANIZATION

---

This document is organized by the following sections:

- Sections 2, 3, and 4 titled “References”, “Functional Overview” and “Symbols and Abbreviations” respectively provide a referral to terminology and acronyms used in this document.

## 2. REFERENCES

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The TIA/EIA-41 recommendations are:

- ANSI/TIA/EIA-41, *Cellular Radiotelecommunications Intersystem Operations; 1997.*

The TIA/EIA/IS-93 recommendations are:

- ANSI/TIA/EIA/IS-93, *Cellular Radio Telecommunications Ai - Di Interfaces*

The ANSI J-STD-023 recommendations are:

- ANSI J-STD-023, *PCN to PCN Intersystem Operations based on PCS1900 Standard, approved for publication.*

The ANSI J-STD-024 recommendations are:

- ANSI J-STD-024, *Personal Communication Services, SS7 based A-interface Standard, approved for publication.*

The ANSI T1 recommendations are:

- ANSI T1.111, *Signalling System No. 7 (SS7) -- Message Transfer Part (MTP); 1996.*
- ANSI T1.113, *Signalling System No. 7 (SS7) -- Integrated Services Digital Network (ISDN) User Part; 1995.*

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## 3. FUNCTIONAL OVERVIEW

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### 3.1 DEFINITIONS

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#### Callback Number

---

The Directory Number (e.g., MDN, MSISDN) provided to the PSAP to call back the Emergency Services Caller.

#### Emergency Services Call

---

A call requiring connection to a PSAP. The digits 9-1-1 require this treatment in the United States.

#### Emergency Services Network Entity

---

An entity which serves as the Emergency Services point of interface to an MSC (e.g., S/R, PSAP).

#### Public Safety Answering Point

---

An emergency services network element that is responsible for answering emergency calls.

#### Roamer Port

---

A terminating directory number supporting call delivery to mobile stations.

#### Selective Router

---

A Selective Router is an emergency services network element that is responsible for routing incoming emergency calls to the appropriate PSAP, and may be responsible for other functions, such as redirecting calls from a primary PSAP to a secondary PSAP. The specification of Selective Router functionality is outside the scope of this document.

#### Tandem

---

A Tandem switch is an intermediate switch (e.g., Access Tandem) that has normal PSTN routing capabilities, but does not have selective routing capability.

### 3.2 DOCUMENTATION CONVENTIONS

---

In sections which modify existing documents, change marks, such as strikethrough and underscore marks, indicate changes against the document being modified by that section.

## 4. SYMBOLS AND ABBREVIATIONS

ANI	Automatic Number Identification	1
CM	Connection Management	2
ES	Emergency Services	3
ESNE	Emergency Services Network Entity	4
ESRD	EmergencyServicesRoutingDigits parameter	5
EC	Exchange Carrier	6
INC	International Carrier	7
IC	Interexchange Carrier	8
M	Mandatory	9
MDN	Mobile Directory Number	10
MS	Mobile Station	11
MSISDN	Mobile Station ISDN Number	12
O	Optional	13
PCS	Personal Communications System	14
PCSC	PCS Switching Center	15
POI	Point of Interface	16
PS	Personal Station	17
PSAP	Public Safety Answering Point	18
R	Required	19
SHH	SpecialHandling parameter	20
S/R	Selective Router	21
TDD/TTY	Telecommunications Device for the Deaf/Teletypewriter	22

WIRELESS ENHANCED EMERGENCY SERVICES:  
PSAP PERSPECTIVE

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# FOREWORD

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This Foreword is not part of this Interim Standard.

This is one of a series of recommendations titled

“WIRELESS ENHANCED EMERGENCY SERVICES”

which provides a solution for the limited capabilities of Wireless Enhanced Emergency Services. These capabilities include:

- provision of base station, cell site or sector identification information
- subscriber identification
- callback
- reconnect

The recommendations included in this series are:

- J-STD-034.1, Wireless Enhanced Emergency Services: Functional Overview
- J-STD-034.2, Wireless Enhanced Emergency Services: PSAP Perspective
- J-STD-034.3, Wireless Enhanced Emergency Services: Emergency Services Stage 2
- J-STD-034.4, Wireless Enhanced Emergency Services: *TIA/EIA-41* Intersystem Handoff Modifications
- J-STD-034.5, Wireless Enhanced Emergency Services: *TIA/EIA-41* Automatic Roaming Modifications
- J-STD-034.6, Wireless Enhanced Emergency Services: *ANSI J-STD-023* Stage 2 Modifications
- J-STD-034.7, Wireless Enhanced Emergency Services: *TIA/EIA/IS-93* Modifications
- J-STD-034.8, Wireless Enhanced Emergency Services: *TIA/EIA-41* Stage 3 Modifications
- J-STD-034.9, Wireless Enhanced Emergency Services: *ANSI J-STD-024* Modifications

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# 1. INTRODUCTION

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which provides a solution for the limited capabilities of Wireless Enhanced Emergency Services. These capabilities include:

- provision of base station, cell site or sector identification information
- subscriber identification
- callback
- reconnect

## 1.2 SCOPE

---

This document provides a solution for the handling of Wireless Enhanced Emergency Calls as it pertains to the PSAP's perspective.

## 1.3 ORGANIZATION

---

This document is organized by the following sections:

- Section 1, titled "Introduction," provides introductory information for this Interim Standard.
- Section 2, titled "References," lists the normative and informative references for this Interim Standard.
- Section 3, titled "Terminology," lists the definitions, symbols, abbreviations, and other documentation conventions used in this Interim Standard.
- Section 4, titled "PSAP Perspective," defines the PSAP Perspective as it pertains to the handling of Wireless Enhanced Emergency Services.

## 2. REFERENCES

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None

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## 3. TERMINOLOGY

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### 3.1 DEFINITIONS

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#### **Callback Number**

---

The Directory Number (e.g., MDN, MSISDN) provided to the PSAP to call back the Emergency Services Caller.

#### **Emergency Services Call**

---

A call requiring connection to a PSAP. The digits 9-1-1 require this treatment in the United States.

#### **Public Safety Answering Point**

---

An emergency services network element that is responsible for answering emergency calls.

#### **Roamer Port**

---

A terminating directory number supporting call delivery to mobile stations.

### 3.2 SYMBOLS AND ABBREVIATIONS

---

MDN	MobileDirectoryNumber parameter
MS	Mobile Station
MSISDN	Mobile Station ISDN Number
PSAP	Public Safety Answering Point
TDD/TTY	Telecommunications Device for the Deaf/Text Teletypewriter

## 4. PSAP PERSPECTIVE

---

### 4.1 Emergency Services Call to the PSAP

---

This feature allows a Public Safety Answering Point (PSAP) to receive a call. The PSAP should be able to infer (e.g., based on trunk group) that the call was initiated by an MS. The MS's current location may be supplied to the PSAP.

#### **Applicability to Telecommunications Services**

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Emergency Services Call is applicable to voice telecommunication services (including Telecommunications Device for the Deaf/Teletypewriter (TDD/TTY)).

#### 4.1.1 Normal Procedures With Successful Outcome

---

Upon answering the call, the PSAP shall be able to communicate with the caller over a normal voice connection.

After establishment of the call with the PSAP, the caller may allow the party or parties previously put on "hold" to join the conversation.

Release occurs when either the caller or PSAP disconnects. When the Emergency Services Call is released, the caller's (controlling MS's) normal calling capabilities are restored.

After the Emergency Services Call is released, the PSAP should be able to call back the caller using a supplied callback number, as described in Emergency Services Call from the PSAP.

#### 4.1.2 Exception Procedures or Unsuccessful Outcome

---

##### **Emergency Call Reconnect**

---

In the event of a loss of radio contact with the MS, the network should attempt to re-establish the Emergency Services Call. The PSAP may receive an indicator that the network is attempting to re-establish (i.e., reconnect) the call. In-band low tone (i.e., 480 Hz plus 620 Hz at -24 dBm0/frequency) may be applied by the Serving MSC for this purpose.

If the network fails to re-establish the call, the PSAP may be provided a reorder tone.

#### 4.1.3 Interactions With Other Services

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##### **Call Hold**

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The PSAP shall not be placed on hold by the caller.

##### **Call Waiting**

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Call Waiting shall be suspended for the duration of an Emergency Services Call.

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1           **Emergency Services Call to the PSAP**  
2 \_\_\_\_\_

3           Not applicable.  
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5           **Emergency Services Call from the PSAP**  
6 \_\_\_\_\_

7           None identified.  
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9           **Three-Way Calling**  
10 \_\_\_\_\_

11           The caller should not be able to disconnect the PSAP from the call via the use of flash.  
12           Once the three-way call phase is reached, further flashes shall be ignored.  
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## 4.2 Emergency Services Call from the PSAP

Emergency Services Call from the PSAP permits a Public Safety Answering Point (PSAP) to call back an MS when the callback number is known to the PSAP.

This capability may be used by the PSAP to access the Emergency Services caller even if the caller subsequently roams to another system. This access method shall be available at any time.

### Applicability to Telecommunications Services

Emergency Services Call from the PSAP is applicable to voice telecommunication services (including TDD/TTY).

### 4.2.1 Normal Procedures With Successful Outcome

#### Invocation

A PSAP may call back a caller by one of the following access methods:

- a. Mobile Directory Number. The caller's individual Directory Number is used to call back the caller. There is no time limit to this type of access, and it may access the MS when it roams to other systems.
- b. Two-stage serving system based number. A "normal" roamer port is accessed through a directory number. This access method typically requires that the subscriber be present in the serving system and has terminating privileges.

Method "a" shall always be supplied, and it may be used by the PSAP after one of the serving system access methods fails or as the initial access method. Method "b" may be supplied at the serving system's option.

#### Normal Operation With Successful Outcome

A PSAP may initiate a call at any time. This call is handled as any other "normal" incoming call (i.e., the called party's activated termination features are invoked).

### 4.2.2 Exception Procedures or Unsuccessful Outcome

#### Invocation

A default callback number may have been provided which may not reach the caller. PSAP call treatment in this case is by bilateral agreement.

The switching systems handle an incoming call from the PSAP as any other incoming call. The subscriber may have previously activated call termination features (e.g., Call Forwarding Unconditional, Call Forwarding Busy, Do Not Disturb) that will be executed by the switching systems upon receipt of the call.

### 4.2.3 Interactions With Other PSAP Services

#### Emergency Services

None identified.

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**Emergency Services Call from the PSAP**

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Not applicable.

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WIRELESS ENHANCED EMERGENCY SERVICES:  
EMERGENCY SERVICES STAGE 2

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# FOREWORD

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- subscriber identification
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- J-STD-034.9, Wireless Enhanced Emergency Services: *ANSI J-STD-024* Modifications

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# 1. INTRODUCTION

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- provision of base station, cell site or sector identification information
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- callback
- reconnect

## 1.2 SCOPE

---

This document provides a solution for the intersystem messaging between the MSC and the Emergency Services network necessary to support Wireless Enhanced Emergency Services.

## 1.3 ORGANIZATION

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- Section 1, titled “Introduction,” provides introductory information for this Interim Standard.
- Section 2, titled “References,” lists the normative and informative references for this Interim Standard.
- Section 3, titled “Terminology,” lists the definitions, symbols, abbreviations, and other documentation conventions used in this Interim Standard.
- Section 4, titled “Emergency Services Stage 2,” defines the intersystem messaging between the wireless switching systems and the Emergency Services network as it pertains to the handling of Wireless Enhanced Emergency Services.

## 2. REFERENCES

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None

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## 3. TERMINOLOGY

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### 3.1 DEFINITIONS

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#### Callback Number

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The Directory Number (e.g., MDN, MSISDN) provided to the PSAP to call back the Emergency Services Caller.

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#### Public Safety Answering Point

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#### Selective Router

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A Selective Router is an emergency services network element that is responsible for routing incoming emergency calls to the appropriate PSAP, and may be responsible for other functions, such as redirecting calls from a primary PSAP to a secondary PSAP. The specification of Selective Router functionality is outside the scope of this document.

#### Tandem

---

A Tandem switch is an intermediate switch (e.g., Access Tandem) that has normal PSTN routing capabilities, but does not have selective routing capability.

### 3.2 SYMBOLS AND ABBREVIATIONS

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ES	Emergency Services
MS	Mobile Station
O	Optional
PSAP	Public Safety Answering Point
R	Required
S/R	Selective Router

## 4. EMERGENCY SERVICES STAGE 2

### 4.1 Enhanced Wireless Emergency Call

This scenario describes an Emergency Services Call initiated by an MS and routed to the appropriate PSAP based on base station, cell site or sector routing information.

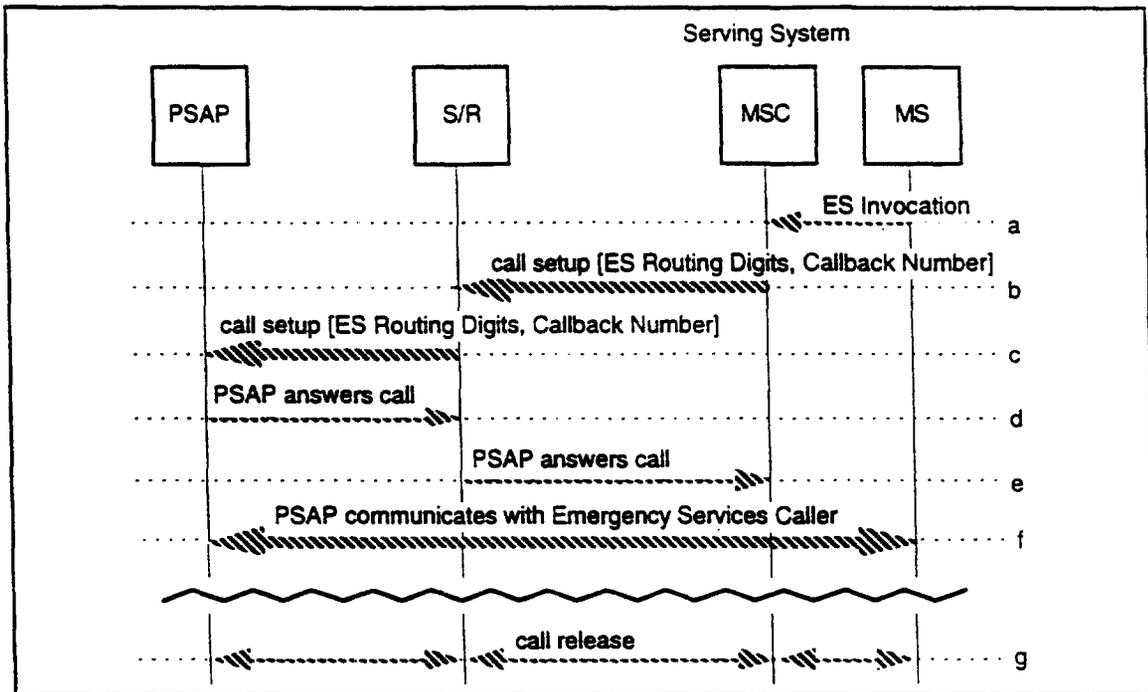


Figure 1 Enhanced Wireless Emergency Call

- An MS initiates an Emergency Services Call (e.g., dials 9-1-1).
- The Serving MSC, recognizing that an emergency call is being dialed, routes the call over dedicated facilities to a Selective/Router (S/R), transmitting the following information:

Information	Usage	Type
ES Routing Digits	Emergency Services Routing Digits. A unique identifier of a specific base station, cell site or sector. The parameter carrying this information should be encoded as per the protocol used to route the call.	R
Callback Number	The Directory Number provided to call back the Emergency Services caller.	R

- The S/R forwards the call to the appropriate PSAP. This routing decision may take into account the location of the MS, time-of-day, etc.

Note: Interfaces between S/R, PSAP and other emergency services network elements are outside the scope of this standard and are shown for illustrative purposes only.

- The PSAP answers by connecting to the Emergency Services Caller and returning answer supervision to the S/R.

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- e. The S/R forwards the PSAP's answer supervision signal to the Serving MSC.
- f. The PSAP's agent communicates with the Emergency Services Caller and provides an appropriate response to the emergency.
- g. The call is released.