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3RD GENERATION
PARTNERSHIP
PROJECT 2
"3GPP2"

Callback to an Emergency Call Origination

Stage 1 Requirements

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REVISION HISTORY

Revision	Description of Changes	Date
Rev 0 v1.0	Initial Publication	25 June 2010

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Foreword

This foreword is not part of this specification document.

This specification document was prepared by the Third Generation Partnership Project 2 (3GPP2).

1 **1 INTRODUCTION AND**

2 **1.1 SCOPE**

3 This document specifies the access network requirements for Callback to
4 an Emergency Call Origination (CECO). These requirements pertain to 1x
5 Circuit Switched (1xCS) calls routed to a 1xCS access network and 1xCS
6 calls routed to a non-1xCS access network. For example, the
7 requirements pertain to Circuit-Switched Fall Back (CSFB) for a Long
8 Term Evolution (LTE) access network. The requirements are subject to
9 regional regulation.

10 **1.2 Document Conventions**

11 “Shall” and “shall not” identify requirements to be followed strictly to
12 conform to this document and from which no deviation is permitted.
13 “Should” and “should not” indicate that one of several possibilities is
14 recommended as particularly suitable, without mentioning or excluding
15 others, that a certain course of action is preferred but not necessarily
16 required, or that (in the negative form) a certain possibility or course of
17 action is discouraged but not prohibited. “May” and “need not” indicate a
18 course of action permissible within the limits of the document. “Can” and
19 “cannot” are used for statements of possibility and capability, whether
20 material, physical or causal.

21 **2 INFORMATIVE REFERENCES**

22 References are either specific (identified by date of publication, revision
23 identifier, and version number) or non-specific. For a specific reference,
24 subsequent revisions may not apply. For a non-specific reference, the
25 latest revision applies.

26 The document references which are applicable to this specification
27 include the following:

28 [1] 3GPP TS 23.002, *3rd Generation Partnership Project; Technical Specification*
29 *Group Services and Systems Aspects; Network architecture.*

30 **3 DEFINITIONS AND ABBREVIATIONS**

31 The terms and abbreviations which are used within this specification are
32 defined as follows:

33 **3.1 Definitions**

34 **Callback to an Emergency Call Origination:** is a call request initiated
35 by an emergency service provider, e.g., Public Safety Answering Point
36 (PSAP), police station, fire department, poison control, to a mobile station
37 that had previously originated an emergency call.

1 **3.2 Abbreviations**

2 The terms and abbreviations which are used within this specification are
 3 defined as follows:

Term	Definition
1x	cdma2000 ^{®1} 1x
1xCS	1x Circuit Switched
3GPP2	Third Generation Partnership Project 2
CECO	Callback to an Emergency Call Origination
CSFB	Circuit Switched Fallback
IWS	Interworking Solution
LTE	Long Term Evolution
MSC	Mobile Switching Center
MSCe	Mobile Switching Center emulation
OP	Organizational Partner
PSAP	Public Safety Answering Point
TIA-USA	Telecommunications Industry Association in the United States

4 **4 GENERAL FEATURE DESCRIPTION**

5 Callback to an Emergency Call Origination (CECO) occurs when an
 6 emergency service provider (e.g., PSAP, police station, fire department,
 7 poison control) initiates a call request to a mobile station that had
 8 previously originated an emergency call. The callback could be initiated,
 9 for example, due to a dropped call scenario (the emergency call
 10 origination was abnormally released due to deteriorating radio
 11 conditions) or the need by the emergency service provider to obtain
 12 further information about the emergency situation after the emergency
 13 call origination was released normally.

14 **5 DETAILED REQUIREMENTS**

15 **5.1 General CECO Requirements**

16 **CECO-01:** The serving MSCe/MSC shall provide a CECO indication to
 17 the 1xCS access network if all of the following conditions apply:

¹ cdma2000[®] is the trademark for the technical nomenclature for certain specifications and standards of the Organizational Partners (OPs) of 3GPP2. Geographically (and as of the date of publication), cdma2000[®] is a registered trademark of the Telecommunications Industry Association (TIA-USA) in the United States.

- 1 a. the serving Mobile Switching Center emulation (MSCe) or Mobile
2 Switching Center (MSC) determines that a call termination is a
3 CECO,
- 4 b. the serving MSCe/MSC is serving the mobile station to which the
5 CECO is addressed,
- 6 c. the mobile station to which the CECO addressed is served by a
7 1xCS access network,
- 8 d. regional regulations apply.

9 Note: How the serving MSCe/MSC determines that a call termination is
10 a CECO is outside the scope of this document.

11 **CECO-02:** Where required by regional regulation, the 1xCS access
12 network shall support receiving a CECO indication.

13 **CECO-03:** The serving MSCe/MSC shall provide a CECO indication to
14 the 1xCS Interworking Solution (IWS) if all of the following conditions
15 apply:

- 16 a. the serving MSCe/MSC determines that a call termination is a
17 CECO,
- 18 b. the serving MSCe/MSC is serving the mobile station to which the
19 CECO is addressed,
- 20 c. the mobile station to which the CECO is addressed is served by a
21 1xCS IWS described in 3GPP TS 23.002 [1],
- 22 d. regional regulations apply.

23 Note: How the serving MSCe/MSC determines that a call termination is a
24 CECO is outside the scope of this document.

25 **CECO-04:** Where required by regional regulation, a 1xCS IWS described
26 in 3GPP TS 23.002 [1] shall support receiving a CECO indication.

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