

3GPP2 S.P0142-0

Version 0.2

April 2010



3RD GENERATION
PARTNERSHIP
PROJECT 2
"3GPP2"

Callback to an Emergency Call Origination

Stage 1 Requirements

© 2010 3GPP2

3GPP2 and its Organizational Partners claim copyright in this document and individual Organizational Partners may copyright and issue documents or standards publications in individual Organizational Partner's name based on this document. Requests for reproduction of this document should be directed to the 3GPP2 Secretariat at secretariat@3gpp2.org. Requests to reproduce individual Organizational Partner's documents should be directed to that Organizational Partner. See www.3gpp2.org for more information.

REVISION HISTORY

Revision	Description of Changes	Date
Rev 0 v0.1	Initial draft	28 January 2010
Rev 0 v0.2	TSG review resolution and V&V version	April 2010
Rev 0 v1.0	Initial Publication	TBD

Table of Contents

1
2
3 1 INTRODUCTION AND SCOPE1
4 2 INFORMATIVE REFERENCES1
5 3 DEFINITIONS AND ABBREVIATIONS.....1
6 3.1 Definitions1
7 3.2 Abbreviations.....1
8 4 GENERAL FEATURE DESCRIPTION2
9 5 DETAILED REQUIREMENTS2
10 5.1 General CECO Requirements2
11
12

1

2

3 This page is intentionally left blank.

4

1 **1 INTRODUCTION AND SCOPE**

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

9 **2 INFORMATIVE REFERENCES**

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

14 The document references which are applicable to this specification
 15 include the following:

- 16 [1] 3GPP TS 23.002, *3rd Generation Partnership Project; Technical Specification*
 17 *Group Services and Systems Aspects; Network architecture.*

18 **3 DEFINITIONS AND ABBREVIATIONS**

19 The terms and abbreviations which are used within this specification are
 20 defined as follows:

21 **3.1 Definitions**

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

26 **3.2 Abbreviations**

27 The terms and abbreviations which are used within this specification are
 28 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

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.

Term	Definition
CSFB	Circuit Switched Fallback
IWS	Interworking Solution
LTE	Long Term Evolution
MSC	Mobile Switching Center
MSCe	Mobile Switching Center emulation
PSAP	Public Safety Answering Point

1 4 **GENERAL FEATURE DESCRIPTION**

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

11 5 **DETAILED REQUIREMENTS**

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

22 5.1 **General CECO Requirements**

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

- 25 a. the serving Mobile Switching Center emulation (MSCe) or Mobile
26 Switching Center (MSC) determines that a call termination is a
27 CECO,
- 28 b. the serving MSCe/MSC is serving the mobile station to which the
29 CECO is addressed,

- 1 c. the mobile station to which the CECO addressed is served by a
- 2 1xCS access network,
- 3 d. regional regulations apply.

4 Note: How the serving MSCe/MSC determines that a call termination is

5 a CECO is outside the scope of this document.

6 **CECO-02:** Where required by regional regulation, the 1xCS access

7 network shall support receiving a CECO indication.

8 **CECO-03:** The serving MSCe/MSC shall provide a CECO indication to

9 the 1xCS Interworking Solution (IWS) if all of the following conditions

10 apply:

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

18 Note: How the serving MSCe/MSC determines that a call termination is a

19 CECO is outside the scope of this document.

20 **CECO-04:** Where required by regional regulation, a 1xCS IWS described

21 in 3GPP TS 23.002 [1] shall support receiving a CECO indication.

1
2
3
4

This page is intentionally left blank.