

**Source:** TSG CT WG1  
**Title:** Enhancements of VGCS in public networks for communication of public authority officials  
**Agenda item:** 6.1.1  
**Document for:** APPROVAL

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**Introduction:**

This document contains **the revised WID on “Enhancements of VGCS in public networks for communication of public authority officials “** that has been agreed by TSG CT WG1 meeting #38 and forwarded to TSG CT Plenary meeting #28 for approval.

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**Work Item Description**

**Title**

Enhancements of VGCS in public networks for communication of public authority officials

**1 3GPP Work Area**

	Radio Access
X	Core Network
	Services

**2 Linked work items**

Enhancements of VGCS in public networks for communication of public authority officials (see SP-040304)

Enhancements of VGCS in public networks for communication of public authority officials (see GP-041837).

**3 Justification**

It is envisaged, that voice group call services (VGCS) can in future be used in public networks for communication of public authority officials (police, firebrigade ..). To meet the particular requirements for these purposes some additional functionality (e.g. encryption, emergency handling, SMS support) needs to be supported by VGCS services.

**4 Objective**

The objective of this work item is to create the required change requests to existing VGCS specifications and related specifications to enhance VGCS with the additional capabilities to support communication of public authority officials.

**5 Service Aspects**

VGCS can be used for communication of public authority officials in a way that e.g. a group of policemen or firefighters constitute a voice group. Any group member who is the current talker, will be heard by all other members.

The proposed enhancements of the VGCS service functionality, that are to be introduced by the current work item shall comprise, but are not restricted to:

- i) Support of encrypted speech (E2E ciphering) in voice group calls
- ii) Support of talker prioritisation (e.g. priority subscriber talker request, emergency case talker request, emergency talker reset) in voice group calls
- iii) Display of information (text) about the current talker to all listeners of the group
- iv) Delivery of short messages to a voice group call, i.e. to the talker and all listeners of the group call

**6 MMI-Aspects**

None

**7 Charging Aspects**

None.

**8 Security Aspects**

VGCS services used for communication of public authority officials have to fulfil additional security requirements. It is required, that E2E speech encryption in voice group calls is supported.

**9 Impacts**

<b>Affects:</b>	<b>UICC apps</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>	X	X	X	X	
<b>No</b>					
<b>Don't know</b>					X

**Expected Output and Time scale (to be updated at each plenary)**

<b>New specifications</b>						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
<b>Affected existing specifications</b>						
Spec No.	CR	Subject		Approved at plenary#		Comments
43.068		Stage 2 modifications for talker prioritisation and display of additional information about the current talker		CT#28		item (ii) and (iii)
44.068		Stage 3 modifications for talker prioritisation		CT#29		item (ii)
29.002		Stage 3 enhancements of MAP messages for talker prioritisation and display of additional information about the current talker		CT#29		item (ii) and (iii)
43.068		Stage 2 modifications for E2E encryption and SMS delivery		CT#29		item (i) and (iv)
23.040		Stage 2 modifications of SMS delivery		CT#30		item (iv)
24.011		Stage 3 modifications of SMS protocol		CT#30		item (iv)
44.068		Stage 3 modifications for E2E encryption		CT#29		item (i)
29.002		Stage 3 enhancements of MAP messages for E2E encryption and SMS delivery		CT#30		item (i) and (iv)

**11 Work item rapporteurs**

Robert Zaus (Siemens)

**12 Work item leadership**

3GPP TS CN WG1

**13 Supporting Companies**

Siemens, Vodafone, T-Mobile, Ericsson, Alcatel

**14 Classification of the WI (if known)**

This WI is a Feature.

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature  
(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature  
Enhancements of VGCS in public networks for communication of public authority officials (see S1-040304)

14c The WI is a Work Task: parent Building Block  
(one Work Item identified as a building block)

form change history:  
2002-07-04: "USIM" box changed to "UICC apps"

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<b>Affects:</b>	<b>UICC apps</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>	X	X	X	X	
<b>No</b>					
<b>Don't know</b>					X

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
43.068		Stage 2 modifications for <a href="#">talker prioritisation and display of additional information about the current talker</a> <del>VGCS enhancements</del>		CTN#286		<a href="#">item (ii) and (iii)</a>
44.068		Stage 3 modifications for <a href="#">talker prioritisation</a> <del>VGCS enhancements</del>		CTN#297		<a href="#">item (ii)</a>
<del>24.008</del>		<del>Stage 3 modifications for VGCS enhancements</del>		<del>CN#27</del>		
29.002		Stage 3 enhancements of MAP messages for <a href="#">talker prioritisation and display of additional information about the current talker</a> <del>VGCS enhancements</del>		CTN#297		<a href="#">item (ii) and (iii)</a>
<a href="#">43.068</a>		<a href="#">Stage 2 modifications for E2E encryption and SMS delivery</a>		CT#29		<a href="#">item (i) and (iv)</a>
<a href="#">23.040</a>		<a href="#">Stage 2 modifications of SMS delivery</a>		CT#30		<a href="#">item (iv)</a>
<a href="#">24.011</a>		<a href="#">Stage 3 modifications of SMS protocol</a>		CT#30		<a href="#">item (iv)</a>
<a href="#">44.068</a>		<a href="#">Stage 3 modifications for E2E encryption</a>		CT#29		<a href="#">item (i)</a>
<a href="#">29.002</a>		<a href="#">Stage 3 enhancements of MAP messages for E2E encryption and SMS delivery</a>		CT#30		<a href="#">item (i) and (iv)</a>

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