

Source: TSG CN WG1
Title: Enhancements of VGCS in public networks for communication of public authority officials
Agenda item: 9.22
Document for: APPROVAL

Introduction:

This document contains **the WID on “Enhancements of VGCS in public networks for communication of public authority officials “** that has been agreed by TSG CN WG1 CN#35 meeting and forwarded to TSG CN Plenary meeting #25 for approval.

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:

- Support of encrypted speech (E2E ciphering) in voice group calls

- Support of talker prioritisation (e.g. priority subscriber talker request, emergency case talker request, emergency talker reset) in voice group calls
- Display of information (text) about the current talker to all listeners of the group
- 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

Affects:	UICC apps	ME	AN	CN	Others
Yes	X	X	X	X	
No					
Don't know					X

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

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 VGCS enhancements		CN#26		
44.068		Stage 3 modifications for VGCS enhancements		CN#27		
24.008		Stage 3 modifications for VGCS enhancements		CN#27		
29.002		Stage 3 enhancements of MAP messages for VGCS enhancements		CN#27		

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"