

**Source:** SA1  
**Title:** New WI on Enhancements of VGCS in public networks  
**Document for:** Approval  
**Agenda Item:** 7.1.3

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**Title:** Enhancements of VGCS in public networks for communication of public authority officials  
**Source:** T-Mobile, Vodafone Group, Siemens  
**Contact:** Joerg Swetina (Siemens AG)  
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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
X	Services

**2**                    **Linked work items**  
- none identified -

**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 member of the group, 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 in voice group calls
- Support of alert in voice group calls
- Sending short messages to a voice group and broadcast to all group members
- Display of additional information (text) on the current talker to all group members

**6 MMI-Aspects**

The MMI for the use of VGCS in public networks for communication of public authority officials is not standardised in 3GPP

**7 Charging Aspects**

Charging requirements will need to be identified.

**8 Security Aspects**

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

**9 Impacts**

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

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

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
42.068		Service requirements for VGCS enhancements		TSG SA#25		
43.068		Stage 2 modifications for VGCS enhancements		TSG SA#26		
TBD						

**11 Work item rapporteurs**

Joerg Swetina (Siemens AG)

**12 Work item leadership**

SA1

**13 Supporting Companies**

T-Mobile International, Vodafone Group, Siemens, Ericsson

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

This WI is a Feature.

X	Feature (go to 14a)
	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  
(one Work Item identified as a feature)

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