

**Work Item Description**

**Evolution of GSM CS algorithms**

**1 3GPP Work Area**

X	Radio Access
X	Core Network
X	Services

**2 Linked work items**

Visibility and configurability

The user/USIM may need to be able to request that the terminal indicates which algorithm is used. Furthermore, the user/USIM may need to be able to request that the terminal rejects communications depending on which algorithm is used.

**3 Justification**

The first GSM CS algorithm has been in service for almost 10 years. It may be worthwhile examining how a new algorithm could be developed and rolled out into the network infrastructure and the mobile stations.

**4 Objective**

The main objectives of this work item will be to evaluate options for replacing the first GSM CS algorithm, to select an appropriate solution, to produce the necessary CRs and to ensure that a new algorithm is developed and made available for use.

**5 Service Aspects**

None identified.

**6 MMI-Aspects**

There may be an impact on the ciphering indicator (see linked work items).

**7 Charging Aspects**

None identified.

**8 Security Aspects**

The main aspect of this work item is security.

**9 Impacts**

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

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

A new milestone has been added and some dates have been changed (in italics) to supersede the milestones agreed at the joint CN/S3 meeting. Further revisions may be necessary so that the standards are available sooner.

Meeting	Date	Activity
	<i>June/July</i>	<i>Presentation by S2 to S3 of well-defined and understandable system architecture concepts and principles</i>
S3#15	September 2000	Requirements capture
S3#16	November 2000	Security feature specification: First draft
	January 2001	Feasibility study including definition of work tasks and completion of the plan for this work item
	March 2001	Definition of security architecture; first draft
	May 2001	Definition of security architecture; CRs approved
	<i>February 2001</i>	<i>Integration of security architecture: Concept presented to S2 and CN</i>
	<i>March 2001</i>	<i>Integration of security architecture: First draft CRs</i>
	<i>April 2001</i>	<i>Integration of security architecture: Complete CRs</i>
	<i>May 2001</i>	<i>Integration of security architecture: CRs approved at TSG level</i>
	<i>June 2001</i>	<i>Review of complete CRs by S3</i>

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	
33.102					Support for new GSM CS security mechanisms in R00 version of 33.102	
33.103					Support for new GSM CS security mechanisms in R00 version of 33.103	
33.105					Support for new GSM CS security mechanisms in R'00 version of 33.105	

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**Work item rapporteurs**

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**Work item leadership**  
TSG SA WG3

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**Supporting Companies**Please mail [cbrookson@iee.org](mailto:cbrookson@iee.org) if your company is willing to support this work item.

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

(X)	Feature (go to 14a)
	Building Block (go to 14b)

	Work Task (go to 14c)
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14a This is a **“Feature”**.  
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