

Source: SA WG3
Title: Revised WI: FIGS/IST work item description
Document for: Approval
Agenda Item: 7.3.3

3GPP TSG SA WG3 Security — S3#16

S3-000745

28-30 November, 2000

Sophia Antipolis, France

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Work Item Description

FIGS enhancements

The GSM Fraud Information Gathering System (FIGS) feature provides the means for the HPLMN to monitor the activities of its subscribers in a VPLMN. The VPLMN collects information about a defined set of activities on monitored subscribers and sends this information back to the HPLMN. This enables the HPLMN to clear certain types of calls and so stop fraudulent use of the GSM system. GSM FIGs only covers ~~connection-orientated services~~ the CS domain. Information gathered using FIGS may create a requirement for the HPLMN to terminate services in the VPLMN. This is supported in GSM using IST capabilities. GSM IST only covers the CS domain.

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

None identified.

3 Justification

In order to maintain an HPLMN's ability to limit its exposure to fraud, it is necessary to extend FIGS functionality to cover new services, domains and subsystems ~~introduced in the R99/R00 system architecture.~~ It is also necessary to consider the extension of IST functionality to cover new services, domains and subsystems.

4 Objective

The main objective of this work item will be to extend FIGS functionality to cover PS services offered by the PS domain, and SIP and H.323 enabled services offered by the IP multimedia (IM) domain. For example, it must be possible for an HPLMN to be able to gather information on Voice-over-IP call activity offered by an IM ~~domain-subsystem~~ in a VPLMN. The work item will investigate whether CAMEL can be used to extend fraud information gathering capabilities to new domains and subsystems ~~in R99/R00.~~ A further objective will be to consider the extension of IST functionality to cover new services, domains and subsystems.

5 Service Aspects

None identified.

6 MMI-Aspects

None identified.

7 Charging Aspects

None identified.

8 Security Aspects

The main aspect of this work item is security.

9 Impacts

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

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

Timescales for extending FIGS to the R99 PS domain probably need to be brought forward. A new milestone has therefore been added (in italics) to supplement the milestones agreed at the joint CN/S3 meeting.

Meeting	Date	Activity
	June/July	Presentation by S2 to S3 of well-defined and understandable system architecture concepts and principles
<i>S3#14</i>	<i>August 2000</i>	<i>Identification of milestones for extending FIGS to PS domain</i>
<i>S3#15</i>	<i>September 2000</i>	<i>Requirements capture</i>
S3#16	November 2000	<u>Requirements capture and outline specification for PS-FIGS.</u> <u>Identify requirements on CAMEL.</u> <u>Identify requirements and timescales for extending IST to new services, domains and subsystems.</u> <u>First draft</u>
	<i>January 2001</i>	<i>Feasibility study including definition of work tasks and completion of the plan for this work item</i>
	March 2001	<u>Definition of security architecture; CrsDraft stage 2 specifications for PS-FIGS -approved at SA plenary.</u> <u>Requirements capture and outline specification for IMSS-FIGS.</u>
	April 2001	<u>Integration of security architecture: Concept presented to S2 and CN</u> <u>Implementation of PS-FIGS stage 3 (e.g. verification that PS-FIGS can be implemented using CAMEL)</u>
	<i>July-June 2001</i>	<i>Draft stage 2 specifications for IMSS-FIGS approved at SA plenary.</i> <i>Integration of security architecture: First draft CRs</i>
	October 2001	<u>Implementation of IMSS-FIGS stage 3.</u> <u>Integration of security architecture:- Complete CRs</u>
	<i>December 2001</i>	<i>Integration of security architecture: CRs approved at TSG level</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
To be allocate d	Fraud Information Gathering System (FIGS); Service requirements – Stage 0	S3	None		March 2001	Update to GSM document <u>to support PS domain.</u>
To be allocate d	Fraud Information Gathering System (FIGS); Service description – Stage 1	S3	None		March 2001	Update to GSM document <u>to support PS domain.</u>
To be allocate d	Fraud Information Gathering System (FIGS); Service description – Stage 2	S3	None		March 2001	Update to GSM document <u>to support PS domain..</u>
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
01.31		Fraud Information Gathering System (FIGS); Service requirements – Stage 0				
02.31		Fraud Information Gathering System (FIGS); Service description – Stage 1				
03.31		Fraud Information Gathering System (FIGS); Service description – Stage 2				

11 Work item rapporteurs

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12 Work item leadership
TSG SA WG3

13 Supporting Companies
Vodafone, BT, Orange, DTI, Ericsson (to be confirmed)
 Please mail the rapporteur if your company is willing to support this work item.

14 Classification of the WI (if known)

<input checked="" type="checkbox"/>	Feature (go to 14a)
<input checked="" type="checkbox"/>	Building Block (go to 14b)
<input type="checkbox"/>	Work Task (go to 14c)

14a The PS-FIGS work is a **Feature**.

14b ~~This~~ The IMSS-FIGS work is a **Building Block** of the Feature “Provisioning of IP-based multimedia services”.