3GPP TSG-CN Meeting #26   **NP-040549**
Athens, Greece. 8th to 10th December 2004

Source:	**3GPP CN WG4**
Title:	Work Item Description on Trace Management, stage3, network, update
Agenda item:	9.22
Document for:	APPROVAL

Work Item Description

Title: Rel6 - Trace Management, stage3, network

1   3GPP Work Area

	Radio Access
X	Core Network
	Services
	Terminals

2   Linked work items

- Unique_ID 35015: Rel6 - Trace Management by SA5

3   Justification

Subscriber and Equipment Trace provide very detailed information at call level on one or more specific mobile(s) or subscribers. This data is an additional source of information to Performance Measurements and allows going further in monitoring and optimisation operations.

The following tasks for CN groups are defined in SA5 "Rel6 - Trace Management" Work Item Description:

- CN4 on trace activation/deactivation over Mc;
- CN4 on trace activation/deactivation impacts to MAP;
- CN4 on trace activation/deactivation impacts to GTP (SGSN – GGSN).
- CN1 on trace activation/deactivation impacts over Gs (SGSN – VLR)

4   Objective

The main objective of this work item is to update the above mentioned interface protocols to include the Trace activation and deactivation procedures defined in SA5 TS 32.422 "Trace Control and Configuration Management". Protocol updates are needed for both signalling based and management based trace activation.

5   Service Aspects

None

6   MMI-Aspects
None

7   Charging Aspects
None

8   Security Aspects
None

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes				X	
No	X	X	X		
Don't know					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
29.002		Mobile Application Part (MAP) specification – new signalling based trace activation and support of IMEISV on E-interface for management based trace.	CN#27 March 2005	CN4
29.060		General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface	CN#27 March 2005	CN4
29.232		Media Gateway Controller (MGC) – Media Gateway (MGW) interface	CN#27 March 2005	CN4
23.205		Bearer-independent circuit-switched core network; Stage 2	CN#27 March 2005	CN4
23.008		Organization of subscriber data	CN#27 March 2005	CN4
23.018		Storing of IMEISV trace and invoking trace data in UTRAN for management based	CN#27 March 2005	CN4
23.012		Fetching of IMEISV at Location Update for management based trace.	CN#27 March 2005	CN4
29.018		Transfer of IMEISV on Gs for Management based trace.	CN#27 March 2005	CN1

11 Work item rapporteur

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12 Work item leadership
CN4

13 Supporting Companies
Nokia, Lucent Technologies, Nortel Networks, Orange, Ericsson

14 Classification of the WI (if known)

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

14c   The WI is a **Work Task**: parent **Building block:**
Unique_ID 35015: Rel6 - Trace Management by SA5

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Work Item Description

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1   **3GPP Work Area**

	Radio Access
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2   **Linked work items**
- ▪ Unique_ID 35015: Rel6 - Trace Management by SA5

3   **Justification**

Subscriber and Equipment Trace provide very detailed information at call level on one or more specific mobile(s) or subscribers. This data is an additional source of information to Performance Measurements and allows going further in monitoring and optimisation operations.

The following tasks for CN groups are defined in SA5 "Rel6 - Trace Management" Work Item Description:

- ~~CN1 on trace activation/deactivation over SIP between IMS entities;~~
- CN4 on trace activation/deactivation over Mc;
- ~~CN4 on trace activation/deactivation over Cx;~~
- CN4 on trace activation/deactivation impacts to MAP;
- CN4 on trace activation/deactivation impacts to GTP (SGSN – GGSN).
- CN1 on trace activation/deactivation impacts over Gs (SGSN – VLR)

4   **Objective**

The main objective of this work item is to update the above mentioned interface protocols to include the Trace activation and deactivation procedures defined in SA5 TS 32.422 "Trace Control and Configuration Management". Protocol updates are needed for both signalling based and management based trace activation.

~~Note: The objective of this CN work item will be further clarified and confirmed when the stage2 specification 32.422 is approved by SA plenary.~~

5   **Service Aspects**

None

6   **MMI-Aspects**

None

7   **Charging Aspects**
None

8   **Security Aspects**
None

9   **Impacts**

Affects:	USIM	ME	AN	CN	Others
Yes				X	
No	X	X	X		
Don't know					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**
~~24.229~~		~~IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP)~~	~~CN#28 June 2005~~	~~CN 1: CN1 does not see any way to complete the 24.229 task for trace without IETF dependency, For this reason, it is likely to delay the completion of the WI.~~
29.002		Mobile Application Part (MAP) specification – new signalling based trace activation and support of IMEISV on E-interface for management based trace.	CN#27 March 2005~~CN#26 December 2004~~	CN4
29.060		General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface	CN#27 March 2005~~CN#26 December 2004~~	CN4
~~29.228~~		~~IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents~~	~~CN#26 December 2004~~	~~CN4~~
29.232		Media Gateway Controller (MGC) -– Media Gateway (MGW) interface	CN#27 March 2005~~CN#26 December 2004~~	CN4
23.205		Bearer-independent circuit-switched core network; Stage 2	CN#27 March 2005~~CN#26 December 2004~~	CN4
23.008		Organization of subscriber data	CN#27 March 2005~~CN#26 December 2004~~	CN4
23.018		Storing of IMEISV trace and invoking trace data in UTRAN for management based	CN#27 March 2005~~CN#26 December 2004~~	CN4
23.012		Fetching of IMEISV at Location Update for management based trace.	CN#27 March 2005 ~~CN#26 December 2004~~	CN4
29.018		Transfer of IMEISV on Gs for Management based trace.	CN#27 March 2005~~CN#26 December 2004~~	CN1

11   **Work item rapporteur**

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

	Feature (go to 14a)
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