Technical Specification Group Services and System Aspects   **TSGS#24(04)0325**
Meeting #24, Seoul, Korea 7-10 June 2004

Source: **TSG SA WG2**
Title: **CRs on 23.976 (Push stage 2)**
Agenda Item: **7.2.3**

The following Change Requests (CRs) have been approved by TSG SA WG2 and are requested to be approved by TSG SA plenary #24.
Note: the source of all these CRs is now S2, even if the name of the originating company(ies) is still reflected on the cover page of all the attached CRs.

S2 doc #	Title	Spec	CR #	cat	Version in	REL	WI	S2 meeting	Clauses affected
S2-041498	NRPCA with Dynamic IP Address Assignment conclusion	23.976	001r1	F	6.0.0	6	PUSH	S2 #39	6.2

CR-Form-v7

CHANGE REQUEST

| ⌘ | **23.976** CR **001** | ⌘**rev** **1** | ⌘ | Current version: | **6.0.0** | ⌘ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME **X** Radio Access Network ☐ Core Network **X**

Title: ⌘	NRPCA with Dynamic IP Address Assignment conclusion	
Source: ⌘	SA2 (Nokia, NTT DoCoMo, Ericsson, Siemens, Nortel Networks, Alcatel, RIM)	
Work item code: ⌘	Push	*Date:* ⌘ 21/04/2004
Category: ⌘ **F**		*Release:* ⌘ Rel-6

Use <u>one</u> of the following categories:
 F (correction)
 A (corresponds to a correction in an earlier release)
 B (addition of feature),
 C (functional modification of feature)
 D (editorial modification)
Detailed explanations of the above categories can
be found in 3GPP <u>TR 21.900</u>.

Use <u>one</u> of the following releases:
 2 (GSM Phase 2)
 R96 (Release 1996)
 R97 (Release 1997)
 R98 (Release 1998)
 R99 (Release 1999)
 Rel-4 (Release 4)
 Rel-5 (Release 5)
 Rel-6 (Release 6)

Reason for change: ⌘	TSG SA#23 plenary agreed that NRPCA with Dynamic IP Address Assignment feature should not be standardised for Push Services.
Summary of change:⌘	Conclusion on the need of NRPCA with Dynamic IP Address Asignment feature is added in the conclusion section of the TR.
Consequences if not approved: ⌘	TR is not completed.

Clauses affected: ⌘	6.2

	Y	N		
Other specs affected: ⌘		X	Other core specifications ⌘	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘	

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.2   Conclusion

This TR has studied the mechanisms available to allow data to be pushed to a mobile device. The architecture used for Push services includes a Push Function and a Push Initiator. The Push Function acts as a gateway to mobile devices for data pushed from Push Initiators. The mobile device user subscribes to a push service via the Push Function and Push Initiator.

When a mobile device has an active connection, either circuit-switched or packet-switched, data may be pushed to the device based on the subscription to push services agreed between the mobile user and the Push Function and Push Initiator.

If a mobile device has a statically assigned IP address and is attached to the network, the method described for NRPCA with static IP address assignment may be used by the Push Function to initiate a PDP Context with the mobile. It was concluded that NRPCA with dynamic IP address assignment would not be standardised to support Push Services.

When a mobile device is attached to a network but does not have an active PDP Context, it may be possible to send the Push Data using SMS, or to send a notification of pending Push Data using the SMS. SMS may also be used to send a notification to the UE to activate a PDP Context.

It has been determined during this study that at least one of the mechanisms defined in clause 5.1.4 is required to allow the Push Function to learn the status of an active PDP Context, and in particular, when an active PDP Context is deactivated by the network.