

joint-API-group (Parlay, ETSI Project OSA, 3GPP TSG_CN WG5)
Meeting #30, Austin, TX, USA, 24-27 January 2005

N5-050102

Email approved on 16 Feb 2005

Title: LS from CN5 (OSA) to SA3 on updating SA3's TR 33.919
Response to: n/a

Source: CN5
To: SA3

Contact Person

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Attachments: N5-050103 (draft Rel-6 CR 33.919 for SA3 agreement – "User Data Management (OSA-GUP support)")

1. Overall Description:

CN5 notes that TR 33.919, clause 7, references the ETSI ES 202.915-3 v1.2.1. It does so in the context of discussing application authentication. It does not reference the equivalent 3GPP TS 29.198-3 and the more recent 3GPP TS 29.199-01.

CN5 informs SA3 that the part in ETSI ES 202.915-3 that is relevant for TR 33.919 is identical to the part found in 3GPP TS 29.198-3. Note that 3GPP TS 29.198-3 and ETSI ES 202.915-3 are both maintained by the same technical body, i.e. the joint-API-group (CN5, Parlay and ETSI TISPAN Project OSA). Specifically, the relevant part in ETSI ES 202.915-3 v1.2.1 is identical to the 3GPP Rel-5 TS 29.198-3 V5.2.0.

CN5 suggests that TR 33.919 references TS 29.198-3 instead of ETSI ES 202.915-3. Additionally, CN5 suggests to also add a reference to TS 29.199-01.

Apart from changing the references, CN5 also suggests a few other corrections on determining the authenticity of OSA applications.

2. Actions:

To SA3 group.

ACTION: CN5 asks SA3 to agree to the CR proposed against the "Application guidelines to use GAA" and "References" clauses in Rel-6 TR 33.919.

3. Date of Next CN5 Meetings:

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPCN5#31	WG	9 - 13 May 2005	Osaka	JP
3GPPCN5#32	WG	29 Aug - 2 Sep 2005	London	UK
3GPPCN5#33	WG	10 - 14 Oct 2005	Boston	US

CHANGE REQUEST

⌘ **33.919** CR **CRNum** ⌘ rev - ⌘ Current version: **6.1.0** ⌘

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 Radio Access Network Core Network

Title:	⌘ Correct the "Application guidelines to use GAA"		
Source:	⌘ CN5 (BAKKER, John-Luc [mailto:jbakker@telcordia.com])		
Work item code:	⌘ OSA3 (TBD)	Date:	⌘ 11/02/2005
Category:	⌘ F	Release:	⌘ Rel-6
	<i>Use <u>one</u> of the following categories:</i> 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 TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> Ph2 (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) Rel-7 (Release 7)

Reason for change:	⌘ Incorrect statements concerning determining authenticity of OSA applications
Summary of change:	⌘ Removed the incorrect statements and updated the references section
Consequences if not approved:	⌘ TR 33.919 to contain incorrect statements

Clauses affected:	⌘ 2 References ⌘ 7 Application guidelines to use GAA						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications ⌘	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Y	N						
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Y	N						
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Other comments:	⌘ Draft Rel-6 CR 33.919 sent for SA3 agreement is attached to the LS in N5-050102.						

Change in Clause 2

2 References

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- [7] 3GPP TS 24.109: "3rd Generation Partnership Project; Technical Specification Group Core Network; Bootstrapping interface (Ub) and Network application function interface (Ua); Protocol details".
- [8] [3GPP TS 29.198-03: "Open Service Access \(OSA\) Application Programming Interface \(API\); Part 3: Framework"](#).
- [9] [3GPP TS 29.199-01: "Open Service Access \(OSA\); Parlay X web services; Part 1: Common"](#).

End of Change in Clause 2

Change in Clause 7

7 Application guidelines to use GAA

GAA provides different alternatives to an AS or an AP to perform user authentication (i.e. force the UE to run AKA with the BSF as specified in TS 33.220 [2] or use a mechanism based on subscriber certificates). Also under GAA, an AS may understand that the user request is already authenticated by an Authentication Proxy.

GAA as described in this TR has not the intention to impose any one authentication mechanism onto applications. It is rather aimed to be a tool at developer's disposal which they can use to their benefit. Application developers may save development time by using GAA instead of designing and implementing application-specific authentication mechanisms. An additional advantage of the mechanisms of GAA is that they can provide global coverage, inherited from the GSM/UMTS coverage.

Depending on network configuration and policies of the operator, an AS or an AP will be able to use any of the alternatives provided by GAA or even any other user authentication mechanisms specified outside of 3GPP if such mechanisms are at their disposal. It is therefore assumed that an AS and an AP should be able to take the decision what parts of GAA shall be used if any.

This section tries to give an overview of arguments that can play a role in the choice of authentication mechanism. The authentication mechanism selected will be dependent on:

1. Requirements/policies relating to the user/server/application/device that needs authentication. This may be in both directions (mutual authentication), but the usual emphasis is user to server authentication.
2. Device and service characteristics, user capabilities and preferences as defined in the user profile.
3. Policies of the network or networks providing the transport service and the service providers of the applications.

Requirements/policies relating to authentication will depend on whether there is a need for:

- a) **Device authentication:** The device is genuine and not a clone i.e. Authentication of a (U)SIM by challenge response.
- b) **Integrity protection:** An example is signalling protection in UTRAN access. A weakness in GSM is that it is very easy for a man in the middle to manipulate signalling message e.g. cipher mode command and a way to prevent it being compromised is to use device authentication **and** integrity protection via a keyed MAC (Message Authentication Code) on the specific signalling messages.
- c) **Application authentication:** It will often be necessary to check the authenticity of the application software ~~by checking its digital signature~~. An example is [TS 29.198-03 \[8\]](#) and [TS 29.199-01 \[9\]](#). ~~ETSI ES 202 915 3 V1.2.1: "Open Service Access (OSA) Application Programming Interface (API) Part 3: Framework (Parlay 4)"~~

