

Title: Response LS to GSMA IREG on Reservation of two new sub domains under ".3gppnetwork.org"

Response to: LS on to 3GPP on Reservation of two new sub domains under ".3gppnetwork.org" from GSMA IREG (NP-040597)

Release: Release 6

Work Item: I-WLAN

Source: TSG CN

To: GSMA IREG, GSMA, SA1, CN1, CN4

Cc:

Contact Person:

Name: Andrew Allen
Tel. Number: +1 847 809 8636
E-mail Address: aallen@rim.com

Attachments: NP-040597

1. Overall Description:

3GPP TSG-CN thanks GSMA IREG for their liaison on Reservation of two new sub domains under ".3gppnetwork.org" contained in NP-040597.

TSG-CN has discussed this liaison and returned the related change requests on I-WLAN network selection and Alternative NAI for 3GPP release 6 back to working groups CN1 and CN4 respectively until the issue raised by GSMA IREG is resolved.

TSG-CN discussed the issues raised by GSMA IREG and no mechanism to fulfil the stage 1 service requirements on manual WLAN PLMN selection that are stated in the current version of 3GPP TS 22.234 could be identified.

TSG-CN would like to bring to the attention of GSMA IREG that the intended usage of the Alternative NAI is only for the manual I-WLAN network selection procedure and is not used by automatic I-WLAN network selection which is used most of the time by most users. As such the additional DNS traffic load on GRX is not anticipated to be significantly higher than that due to DNS failures caused by users mistyping URLs in mobile web browsers.

TSG-CN would also like to inform GSMA IREG that the CN working groups are somewhat constrained in the solution by the current service requirements for I-WLAN selection defined by 3GPP SA1 in 3GPP TS 22.234. Currently it is not identified that there is an alternative approach to the Alternative NAI that will meet the current I-WLAN service requirements.

TSG-CN therefore can't make any progress in this situation, unless either GSMA IREG or 3GPP SA1 change their position. TSG-CN kindly asks GSMA IREG participants to consider this additional information and evaluate whether the Alternative NAI based solution is acceptable and also kindly asks SA1 if the liaison from GSMA IREG justifies any change to the current I-WLAN network selection service requirements.

Given the urgency of a solution and the fact that the TSG-CN working groups meet 14-18th February and that the date of the next GSMA IREG meeting is March, TSG-CN propose that discussions take place in the interim via email between CN1, CN4 and GSMA IREG Packet participants so that CN1 and CN4 can resolve this issue at their February meeting.

2. Actions:

ACTION to GSMA, GSMA IREG: TSG CN asks GSMA and GSMA IREG to consider this additional information, discuss with CN1 and CN4 participants and evaluate whether the Alternative NAI based

solution is acceptable and for GSMA to respond formally to SA1, CN1 and CN4 before the 14th ñ 18th February TSG CN working group meetings

ACTION to SA1: TSG CN asks SA1 to consider if the liaison in NP-040597 from GSMA IREG justifies any change to the current I-WLAN network selection service requirements and inform CN1 and CN4 before the 14th ñ 18th February TSG CN working group meetings if a change in the current service requirements is agreed

ACTION To CN1, and CN4: TSG CN asks CN1 and CN4 to consider the liaison from GSMA IREG and any response from SA1 and discuss with GSM IREG Packet participants a mutually acceptable resolution of this issue so that the appropriate change requests can be agreed at the 14th ñ 18th February TSG CN working group meetings and be presented for approval at the March TSG-CN meeting.

3. Date of Next TSG-CN Meetings:

TSG-CN Meeting #27	9th ñ 11th March 2005	Tokyo, Japan.
TSG-CN Meeting #28	1st ñ 3rd June 2005	Quebec, Canada.



LS to 3GPP on IPv4/v6 IMS roaming and interworking

Meeting Name & Number: IREG # 48
Meeting Date: 3rd - 4th March
Meeting Location: Barcelona
Document Source: GSMA/IREG Packet
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Document Status:	For Approval	
	For Information	
	For Discussion	

Associated Knowledge Base(s):	
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Document History:	

N.B. All GSM Association meetings are conducted in full compliance with the GSM Association's anti-trust compliance policy

High Level Document Summary:

This document is an LS to 3GPP on reserving certain domain names for WLAN implementation

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To: 3GPP TSG CN

Copy: 3GPP TSG CN WG 1, 3GPP TSG CN WG4

From: GSMA IREG Packet

Subject: Reservation of two new sub domains under ".3gppnetwork.org"

Date: 2/12/2004

Contact person:

Kim Fullbrook

O2 UK

Kim.Fullbrook@o2.com

GSMA IREG Packet thanks 3GPP TSG-CN WG4 for their LS on "Reservation of two new sub domains under .3gppnetwork.org" in connection with WLAN Interworking and the Generic Authentication Architecture.

CN4 asked GSMA IREG Packet to:

1) reserve certain proposed sub domains of ".3gppnetwork.org" in connection with:

i) discovering the address of the Boot Strapping Function (BSF) in the PLMN. Specifically reserving the domain name:

`bsf.mnc<MNC>.mcc<MCC>.3gppnetwork.org`

ii) mechanisms being defined to allow the UE to perform a WLAN manual PLMN selection. Specifically reserving the domain name:

`nonrouteable.3gppnetwork.org`

2) never service DNS requests to the latter proposed domain name on the GRX so that all DNS look ups to it will fail;

GSMA IREG Packet approves item i) reserving the domain name:

`bsf.mnc<MNC>.mcc<MCC>.3gppnetwork.org`

IREG Packet is not currently in a position to approve item ii) reserving the domain name:

`nonrouteable.3gppnetwork.org`

IREG Packet is concerned that this practice is not using DNS in the way it was designed to be used. Specifically, DNS is intended to lookup a requested domain and return one of a number of error codes if the requested domain could not be found. It was never intended to deliberately fail to look-up a particular domain. Different DNS implementations may return different failure codes and have an unintended impact, particularly since the system needs to distinguish between an "intended" failure (domain not found) and an "unintended" failure (DNS encountered a problem).

It is also unknown as to the potential increase in DNS traffic that will occur on the GRX, and, more importantly, the increased load on the GRX's Root DNS servers with having to constantly deal with requests to a domain that does not exist (since the Root DNS server cannot set the cache time of responses to a domain that does not exist).

Therefore GSMA IREG Packet asks 3GPP CN to carry out a thorough investigation of the various DNS failure scenarios and traffic load increases, and also to investigate alternative ways of implementing this functionality.