Source:	**Secretary SA WG3 (TSG CN Chairman)**
Title:	**Mail received from TSG CN Chairman on IETF Dependancies table**
Document for:	**Review / comment**

Dear Colleagues,

As part of the effort to improve our interworking with the IETF, we now have a web page listing the dependencies which the 3GPP has on the IETF. The goal is to have a central place where we maintain information about definite and potential IETF dependencies. This includes information that the 3GPP can use to understand the status of relevant work in the IETF and information the IETF can use to understand what is needed by the 3GPP. The table can be found at: http://www.3gpp.org/TB/Other/IETF.htm.

The table will be updated monthly (at around the 1st of each month) to reflect changes in what the 3GPP requires and progress in the IETF.

The information tracked in the table is:
Title - The name of the ID
Link - A link to the ID (note that version numbers may change, thus invalidating the link)
How definite? - Whether the 3GPP has agreed on the need for the ID (definite), or it is still under discussion (possible)

3GPP priority? - How critical it is to the 3GPP that this ID be completed on time" Critical - Essential for base Release 5 functionality, Desirable - Leads to a loss of optional functionality, Nice to have - Minor impact or can be covered by 3GPP specs.

3GPP need - What the 3GPP needs the ID for.
Consequences if not done - What is the impact to the 3GPP if the ID is not done.
3GPP WG - Which 3GPP working groups are affected.
3GPP Rel - Which 3GPP release it is targeted for.
IETF WG - Which IETF WG it is being worked in or targeted for.
IETF Status - Status of the ID in the IETF.
To IESG - When it is expected to go to the IESG
RFC Ready - When it is expected to reach RFC Status
Risk - A subjective evaluation of the risk that the ID will NOT reach RFC status by the 3GPP release date. The categories are: Late (already overdue), High, Medium, and Low. The rows are also color coded by risk.

The table is sorted first by 3GPP release and then by the relevant IETF WG.

This dependency table is intended to cover the whole of 3GPP. For the time being, I will be maintaining the table. Please e-mail me at stephen.hayes@ericsson.com with any updates, corrections, or feedback on the table.

I would like to acknowledge the help of various individuals including Ileana Leuca, David Boswarthick, Dean Willis, Jon Peterson, Bernard Aboba, and Colin Perkins in constructing and populating the table.

Regards,

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3GPP IETF Dependencies and Priorities

Notes:

a. **This dependency and priority is based on the information available as of November 21, 2001**

b. **The 3GPP Requirement is that these IDs be stable and RFC numbers be available to allow 3GPP to reference them.**

c. **Where individual IDs are listed, there is a desire that an ID providing similar requirements or functionality be progessed within the working group.**

d. **The "Definite" column indicates how firm the 3GPP requirement for this ID is. Those listed as Possible are still under discussion (or in some cases not yet discussed in 3GPP).**

e. **The "3GPP Priority" column indicates whether this functionality is deemed essential for the functioning of IMS or some planned 3GPP feature. Desirable indicates that major functionality will be sacrificed if this ID is not ready.**

f. **Items with a high risk of not being complete in time are marked in red. Items with medium risk are in yellow.**

g. **Dependency information compiled by Stephen Hayes, 3GPP TSG-CN Chair (stephen.hayes@ericsson.com, +1 469 360 8500)**

3GPP Dependency Table

0#	Title	Link	How definite?	3GPP Priority	3GPP Need	Consequences if not done	3GPP WG	3GPP Release	IETF WG	IETF Status	To IESG	RFC Ready	Risk
1	RTP payload format and file storage format for AMR and AMR-WB audio	http://www.ietf.org/internet-drafts/draft-ietf-avt-rtp-amr-10.txt	Definite	Critical	Needed for speech within Streaming and IMS appl	Copy is included in 3GPP specs. Increasing risk of divergence.	SA4	Rel 4	AVT	In AD Review		Dec01	Late
2	SS7 MTP3-User Adaptation Layer (M3UA)	http://www.ietf.org/internet-drafts/draft-ietf-sigtran-m3ua-09.txt	Definite	Critical	SS7/IP	Copy is included in 3GPP specs. Increasing risk of divergence	CN4 RAN3	Rel 4	SIGTRAN	WGLC complete	21Nov01	Jan02	Late

3	Differentiated Services Quality of Service Policy Information Base	http://www.ietf.org/internet-drafts/draft-ietf-diffserv-pib-05.txt	Definite	Desirable	Use of COPS for control of 3GPP resources	COPS cannot model diffserv control for COPS-PR	CN3	Rel 5	DIFFSERV	In WGLC. WGLC ends 26Nov01	Jan02	Apr02	High
4	CPIM Presence Information Data Format	http://www.ietf.org/internet-drafts/draft-ietf-impp-cpim-pidf-01.txt	Possible	Desirable	Used in registration to the network, to register multiple public IDs and get notifications when the network de-registers or request re-registration.	3GPP specific data structure used for handling registering of public IDs	CN1	Rel 5	IMPP	In Progress	No date	No date	High
5	Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	http://www.ietf.org/internet-drafts/draft-ietf-dhc-dhcpv6-20.txt	Definite	Desirable	Use Ipv6 addr if DHCP used	Must rely on GPRS specific discovery mechanisms	CN1	Rel 5	IPNG	In progress	No date	No date	High
6	Minimum IPv6 Functionality for a Cellular Host	http://www.ietf.org/internet-drafts/draft-manyfolks-ipv6-cellular-host-01.txt	Possible	Desirable	Consistency of IMS hosts	Inconsistency in Ipv6 stack supported by IMS terminals.	CN1 SA2 T2	Rel 5	IPNG	In progress	No date	No date	High
7	Recommendations for IPv6 in 3GPP Standards	http://www.ietf.org/internet-drafts/draft-wasserman-3gpp-advice-00.txt	Definite	Critical	Determine if any holes in IPv6 usage	May be too late to fix any errors	CN1 CN3 CN4 SA2	Rel 5	IPNG	In progress	No date	No date	Medium
8	SDP: Session Description Protocol	http://www.ietf.org/internet-drafts/draft-ietf-mmusic-sdp-new-03.txt	Definite	Desirable	Make FQDN and tel/e-mail addr optional	Implementations more complicated than required	CN1	Rel 5	MMUSIC	In progress. Needs interoperability testing	No date	No date	High

9	Support for IPv6 in SDP	http://www.ietf.org/internet-drafts/draft-olson-sdp-ipv6-01.txt	Definite	Critical	Carry Ipv6 addr in SDP	IMS Cannot use IPv6	CN1	Rel 5	MMUSIC	Nearing WGLC	Jan02	Mar02	Medium
10	COPS-PR for outsourcing in UMTS: UMTS Go PIB	http://www.ietf.org/internet-drafts/draft-hamer-rap-cops-umts-go-00.txt	Possible	Desirable	Use of COPS for control of 3GPP resources	COPS cannot use COPSPR for policy control	CN3	Rel 5	RAP	Not chartered	No date	No date	High
11	Framework Policy Information Base	http://www.ietf.org/internet-drafts/draft-ietf-rap-frameworkpib-06.txt	Definite	Desirable	Use of COPS for control of 3GPP resources	COPS cannot use COPSPR for policy control	CN3	Rel 5	RAP	In WGLC. WGLC ends 30Nov01	Jan02	Apr02	High
12	Signaling Compression (SigComp)	http://www.ietf.org/internet-drafts/draft-ietf-rohc-sigcomp-02.txt	Definite	Critical	SIP compression algorithm	Very inefficient use of bandwidth and long session establishment delays	CN1	Rel 5	ROHC	In progress	No date	No date	Low
13	Signaling Compression Requirements & Assumptions	http://www.ietf.org/internet-drafts/draft-ietf-rohc-signaling-req-assump-02.txt	Definite	Critical	Define SIP compression requirements	Very inefficient use of bandwidth and long session establishment delays	CN1	Rel 5	ROHC	In progress	No date	No date	Low
14	SS7 SCCP-User Adaptation Layer (SUA)	http://www.ietf.org/internet-drafts/draft-ietf-sigtran-sua-08.txt	Possible (being discussed in 3GPP)	Desirable	SS7/IP	Cannot use SUA for SS7 transport	CN4 RAN3	Rel 5	SIGTRAN	WGLC complete	21Nov01	Jan02	High
15	??? SIP DHCP IPv6 extensions		Definite	Desirable	Use Ipv6 addr if DHCP used	Must rely on GPRS specific discovery mechanisms	CN1	Rel 5	SIP	Not started. Could be incorporated into draft-ietf-sip-dhcp	No date	No date	High
16	DHCP Option for SIP Servers	http://www.ietf.org/internet-drafts/draft-ietf-sip-dhcp-04.txt	Possible	Desirable	Allows laptop support (UE split)	SIP DHCP Ipv6 may need it.	CN1	Rel 5	SIP	IESG Review		No date	High

17	Integration of Resource Management and SIP	http://www.ietf.org/internet-drafts/draft-ietf-sip-manyfolks-resource-02.txt	Definite	Critical	Need resource reservation	Used in base IMS flows. IMS not viable without it.	CN1	Rel 5	SIP	In progress	19Nov01	Feb02	Medium
18	Reliability of Provisional Responses in SIP	http://www.ietf.org/internet-drafts/draft-ietf-sip-100rel-04.txt	Definite	Critical	Need reliable response	Used in base IMS flows. IMS not viable without it.	CN1	Rel 5	SIP	In progress. Will probably be folded into 2543bis.	No date	No date	High
19	SIP Extensions for Caller Identity and Privacy	http://www.ietf.org/internet-drafts/draft-ietf-sip-privacy-02.txt	Definite	Critical	Private identities to identify subscriber	Remote-Party-ID header used in base IMS flows. Anonymity not to be part of Release 5. IMS not viable without it.	CN1	Rel 5	SIP	In progress	No date	No date	High
20	SIP Extensions for Media Authorization	http://www.ietf.org/internet-drafts/draft-ietf-sip-call-auth-02.txt	Definite	Critical	Needed for media auth for billing	No robust QoS based billing. Possibility for fraudulent use of QoS	CN1	Rel 5	SIP	In progress	07Dec01	Mar02	High
21	SIP: Session Initiation Protocol	http://www.ietf.org/internet-drafts/draft-ietf-sip-rfc2543bis-05.txt	Definite	Critical	SIP baseline for IMS	No baseline	CN1	Rel 5	SIP	In progress	No date	No date	High
22	SIP-Specific Event Notification	http://www.ietf.org/internet-drafts/draft-ietf-sip-events-01.txt	Definite	Critical	Needed for registration	Used in base IMS flows. IMS not viable without it.	CN1	Rel 5	SIP	In progress	No date	No date	High
23	The Refer Method	http://www.ietf.org/internet-drafts/draft-ietf-sip-refer-02.txt	Definite	Desirable	Needed for 3rd parties	No call forwarding, conf calling	CN1	Rel 5	SIP	In progress	14Jan02	Apr02	High
24	The SIP Replaces Header	http://www.ietf.org/internet-drafts/draft-biggs-sip-replaces-01.txt	Definite	Desirable	Needed for transfers	Call transfer is less efficient	CN1	Rel 5	SIP	Not chartered	No date	No date	High

25	3GPP requirements on SIP	http://www.ietf.org/internet-drafts/draft-garcia-sipping-3gpp-reqs-02.txt	Definite	Critical	Lists 3GPP Requirements	Cannot define any additional work that is needed for 3GPP IMS	CN1	Rel 5	SIPPING	In progress	Dec01	Feb02	Low
26	SIP-H.323 Interworking	http://www.ietf.org/internet-drafts/draft-agrawal-sip-h323-interworking-01.txt	Definite	Nice to Have	Needed for interworking with H.323	Informational RFC – Needed for consistency in interworking with H.323	CN3	Rel 5	SIPPING	RFC Editor		No date	Low
27	SIP-H.323 Interworking Requirements	http://www.ietf.org/internet-drafts/draft-agrawal-sip-h323-interworking-reqs-02.txt	Definite	Nice to Have	Needed for interworking with H.323	Informational RFC – Needed for consistency in interworking with H.323	CN3	Rel 5	SIPPING	RFC Editor		No date	Low
28	The SIP Negotiate Method	http://www.ietf.org/internet-drafts/draft-spbs-sip-negotiate00.txt	Possible (work based on requirements established in draft-garcia-sipping-3gpp-reqs)	Desirable	Ability to negotiate items spanning multiple sessions such as compression	Specific mechanism must be developed for each option that spans sessions	CN1	Rel 5 Late	SIPPING	Not chartered	No date	No date	High
29	UDP Lite draft	Expired individual draft	Possible	Desirable	UDP Lite transport protocol	Decreased performance for real-time IP services, unneccessary packet losses, especially for IPv6.	RAN3	Rel 5	TSV	IESG Review		No date	Medium
30	??? AAA application for 3GPP & 3GPP2 authorization & authentication		Definite (work based on requirements established in draft-calhoun-sip-aaa-reqs)	Critical	Authentication and Authorization of UEs	Cannot authenticate and authorize UEs.	CN4	Rel 5 Late	AAA	Not started	No date	No date	High

31	Diameter Base Protocol	http://www.ietf.org/internet-drafts/draft-ietf-aaa-diameter-07.txt	Definite	Desirable	Authentication and Authorization	Only GPRS specific security provided	CN4 SA5	Rel 5 Late	AAA	Preparing for 2rd WGLC	Jan02	Apr02	Low
32	The MAP Security Domain of Interpretation for ISAKMP	http://www.ietf.org/internet-drafts/draft-arkko-map-doi-04.txt	Definite	Nice to Have	IKE for MAP	Informational RFC: Needed for consistency of applying IKE to secure GSM MAP and other GSM protocols.	SA3	Rel 5 Late	IPSEC	In progress	No date	No date	Low
33	EAP AKA Authentication	http://www.ietf.org/internet-drafts/draft-arkko-pppext-eap-aka-00.txt	Definite	Critical	AKA in EAP	Cannot use AKA authentication via EAP	CN1 CN4 SA3	Rel 5 Late	PPPEXT	Not chartered	No date	No date	High
34	Security Mechanism Agreement for SIP Connections	http://www.ietf.org/internet-drafts/draft-arkko-sip-sec-agree-00.txt	Possible (work based on requirements established in draft-garcia-sipping-3gpp-reqs)	Desirable	Security Mode Setup (SA3, CN1)	Difficult to add later due to possible "man in middle" attacks. Parts of path unprotected.	CN1 SA3	Rel 5 Late	SIP	Not chartered	No date	No date	High
35	AAA Requirements for IP Telephony/Multimedia	http://www.ietf.org/internet-drafts/draft-calhoun-sip-aaa-reqs-03.txt	Definite	Critical	Lists 3GPP Requirements for AAA	3GPP Work in AAA may not be correct	CN4	Rel 5 Late	SIPPING	In progress	Jan02	Apr02	Low
36	HTTP Authentication with EAP	http://www.ietf.org/internet-drafts/draft-torvinen-http-eap-01.txt	Definite	Critical	EAP in SIP	Cannot authenticate and authorize Ues using IMS-AKA	CN1 SA3	Rel 5 Late	SIPPING	Not chartered	No date	No date	High
37	IP Multimedia Charging requirements on Diameter Accounting	http://www.ietf.org/internet-drafts/draft-olsson-ip-multimedia-reqs-00.txt	Possible (under discussion in 3GPP)	Desirable	Charging info collection based upon services, resources, etc. (SA5)	Only GPRS based charging available (bytes, QoS, time).	SA5	Rel 5 Late	SIPPING	Not chartered	No date	No date	High

38	Single Hop Message Authentication in SIP	http://www.ietf.org/internet-drafts/draft-sen-sipping-onehop-digest-00.txt	Possible (work based on requirements established in draft-garcia-sipping-3gpp-reqs)	Desirable	Integrity Protection	Only GPRS specific integrity protection or use of IPsec	CN1 SA3	Rel 5 Late	SIPPING	Not chartered	No date	No date	High
39	Common Presence and Instant Messaging: Message Format	http://www.ietf.org/internet-drafts/draft-ietf-impp-cpim-msgfmt-04.txt	Possible	Desirable	IM	Instant Messaging not Available	CN1	Rel 6 (not decided)	IMPP	In Progress	No date	No date	Low
40	COPS Extensions for RSVP Receiver Proxy	http://www.ietf.org/internet-drafts/draft-nitsan-cops-rsvp-proxy-03.txt	Possible	Desirable	COPs use of RSVP	COPS cannot use RSVP for quality assurance	CN3	Rel 6 (not decided)	RAP	In progress	No date	No date	Low
41	A SIP Event Sub-Package for Watcher Information	http://www.ietf.org/internet-drafts/draft-ietf-simple-winfo-package-00.txt	Possible	Desirable	Presence	Presence Service not Available	CN1	Rel 6 (not decided)	SIMPLE	WGLC expected Dec01	No date	No date	Low
42	An XML Based Format for Watcher Information	http://www.ietf.org/internet-drafts/draft-ietf-simple-winfo-format-00.txt	Possible	Desirable	Presence	Presence Service not Available	CN1	Rel 6 (not decided)	SIMPLE	WGLC expected Dec01	No date	No date	Low
43	SDP Extensions for SIP Instant Message Sessions	http://www.ietf.org/internet-drafts/draft-ietf-simple-im-sdp-00.txt	Possible	Desirable	IM	Instant Messaging not Available	CN1	Rel 6 (not decided)	SIMPLE	WGLC expected Jan02	No date	No date	Low
44	SIP Extensions for Presence	http://www.ietf.org/internet-drafts/draft-ietf-simple-presence-03.txt	Possible	Desirable	Presence	Presence Service not Available	CN1	Rel 6 (not decided)	SIMPLE	Passed WGLC	Dec01	Mar02	Low
45	SIP Instant Message Sessions	http://www.ietf.org/internet-drafts/draft-ietf-simple-im-session-00.txt	Possible	Desirable	IM	Instant Messaging not Available	CN1	Rel 6 (not decided)	SIMPLE	WGLC expected Jan02	No date	No date	Low
46	SIP Extensions for Instant Messaging	http://www.ietf.org/internet-drafts/draft-ietf-sip-message-00.txt	Possible	Desirable	IM	Instant Messaging not Available	CN1	Rel 6 (not decided)	SIP	Passed from SIMPLE, Work to begin in SIP	No date	No date	Low

A PDF version of this document is available here

Please contact stephen.hayes@ericsson.com with any updates

Change Log

Date	Version	Description of Change
15-11-2001	0.0.1	Pre-publication version
21-11-2001	5.0.0	IETF Dependency draft