3GPP IETF Dependencies and Priorities

Notes:

a.   This dependency and priority is based on the information available as of February 27, 2002

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.   The UID (Unique ID) refers to the ID in the 3GPP workplan.

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

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

3GPP Dependency Table

0#	Title	Link	Risk	How definite?	3GPP Priority	3GPP Need	Consequences if not done	3GPP WG	3GPP Release	UID	IETF WG	IETF Status	To IESG	RFC Ready
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-12.txt	Late	Definite	Critical	Needed for speech within Streaming and IMS appl	Copy is included in 3GPP specs. Increasing risk of divergence.	SA4	Rel 4	11004	AVT	In AD Review	Reviewed by IESG	7Mar 02
2	SS7 MTP3-User Adaptation Layer (M3UA)	http://www.ietf.org/internet-drafts/draft-ietf-sigtran-m3ua-12.txt	Late	Definite	Critical	SS7/IP	Copy is included in 3GPP specs. Increasing risk of divergence	CN4 RAN3	Rel 4 (R'99 also)		SIGTRAN	in RFC editors	Reviewed by IESG	Apr02
3	Minimum IPv6 Functionality for a Cellular Host	http://www.ietf.org/internet-drafts/draft-manyfolks-ipv6-cellular-host-02.txt	High	Possible	Desirable	Consistency of IMS hosts	Inconsistency in Ipv6 stack supported by IMS terminals.	SA2 T2	Rel 5		IPNG	In progress	No date	No date
4	Recommendations for IPv6 in 3GPP Standards	http://www.ietf.org/internet-drafts/draft-wasserman-3gpp-advice-00.txt	Medium	Definite	Critical (needs stability, but not necessarily RFC status)	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
5	Support for IPv6 in SDP	http://www.ietf.org/internet-drafts/draft-ietf-mmusic-sdp-ipv6-02.txt	Medium	Possible (Fallback containing essential IPv6 support if sdp-new does not reach RFC)	Critical	Carry Ipv6 addr in SDP	IMS Cannot use IPv6	CN1	Rel 5		MMUSIC	In IETF last call	Reviewed by IESG	7Mar02
6	An Offer/Answer Model with SDP	http://www.ietf.org/internet-drafts/draft-ietf-mmusic-sdp-offer-answer-01.txt	Medium	Definite	Critical	Negotiate SDP streams	IMS cannot negotiate SDP characteristics	CN1	Rel 5		MMUSIC	In IETF last call	21Feb02	7Mar02

0#	Title	Link	Risk	How definite?	3GPP Priority	3GPP Need	Consequences if not done	3GPP WG	3GPP Release	UID	IETF WG	IETF Status	To IESG	RFC Ready
7	Signaling Compression Requirements & Assumptions	http://www.ietf.org/internet-drafts/draft-ietf-rohc-signaling-req-assump-04.txt	Low	Definite	Critical (needs stability, but not necessarily RFC status)	Define SIP compression requirements	Very inefficient use of bandwidth and long session establishment delays	CN1	Rel 5		ROHC	In progress	No date	No date
8	SIP: Session Initiation Protocol	http://www.ietf.org/internet-drafts/draft-ietf-sip-rfc2543bis-08.txt	High	Definite	Critical	SIP baseline for IMS	No baseline	CN1	Rel 5	2521	SIP	In IETF last call	21Feb02	7Mar02
9	Reliability of Provisional Responses in SIP	http://www.ietf.org/internet-drafts/draft-ietf-sip-100rel-05.txt	High	Definite	Critical	Reliable responses	Progress signalling not reliable	CN1	Rel 5		SIP	In IETF last call	21Feb02	7Mar02
10	SIP: Locating SIP Servers	http://www.ietf.org/internet-drafts/draft-ietf-sip-srv-05.txt	High	Definite	Critical	Resolving SIP servers using DNS	Cannot locate SIP servers using DNS	CN1	Rel 5		SIP	In IETF last call	21Feb02	7Mar02
11	SIP-Specific Event Notification	http://www.ietf.org/internet-drafts/draft-ietf-sip-events-03.txt	High	Definite	Critical	Needed for registration	Used in base IMS flows. IMS not viable without it.	CN1	Rel 5	11000	SIP	In IETF last call	21Feb02	7Mar02
12	The SIP Replaces Header	http://www.ietf.org/internet-drafts/draft-ietf-sip-replaces-00.txt	High	Definite	Desirable	Needed for transfers	Call transfer is less efficient	CN1	Rel 5 Late	11003	SIP	Not chartered	No date	
13	3GPP requirements on SIP	http://www.ietf.org/internet-drafts/draft-garcia-sipping-3gpp-reqs-02.txt	Low	Definite	Critical (needs stability, but not necessarily RFC status)	Lists 3GPP Requirements	Cannot define any additional work that is needed for 3GPP IMS	CN1	Rel 5		SIPPING	In progress	Dec01	Feb02
14	UDP Lite draft	http://www.ietf.org/internet-drafts/draft-larzon-udplite-04.txt	Medium	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

0#	Title	Link	Risk	How definite?	3GPP Priority	3GPP Need	Consequences if not done	3GPP WG	3GPP Release	UID	IETF WG	IETF Status	To IESG	RFC Ready
15	Diameter Multimedia Application	http://www.ietf.org/internet-drafts/draft-johansson-aaa-diameter-mm-app-01.txt	High	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
16	Diameter Base Protocol	http://www.ietf.org/internet-drafts/draft-ietf-aaa-diameter-08.txt	Low	Definite	Critical	Authentication and Authorization	Only GPRS specific security provided	CN4 SA5	Rel 5 Late	11011	AAA	Preparing for 2nd WGLC	Jan02	Apr02
17	Differentiated Services Quality of Service Policy Information Base	http://www.ietf.org/internet-drafts/draft-ietf-diffserv-pib-05.txt	Medium	Definite	Desirable	Use of COPS for control of 3GPP resources	must replicate relevant information in Go PIB	CN3	Rel 5 Late		DIFFSERV	Passed WGLC. May be downgraded to informational RFC	Jan02	Apr02
18	CPIM Presence Information Data Format	http://www.ietf.org/internet-drafts/draft-ietf-impp-cpim-pidf-01.txt	Medium	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 Late		IMPP	In Progress	No date	No date
19	Dynamic Host Configuration Protocol for IPv6 (DHCPv6)	http://www.ietf.org/internet-drafts/draft-ietf-dhc-dhcpv6-23.txt	High	Definite	Desirable	Use Ipv6 addr if DHCP used.	Must rely on GPRS specific discovery mechanisms	SA2	Rel 5 Late		IPNG	In progress	No date	No date
20	DHCP for SIP server discovery	http://www.ietf.org/internet-drafts/draft-ietf-sip-dhcp-06.txt	High	Definite	Desirable	SIP server discovery.	Must rely on GPRS specific discovery mechanisms	SA2	Rel 5 Late		IPNG	In progress	No date	No date

0#	Title	Link	Risk	How definite?	3GPP Priority	3GPP Need	Consequences if not done	3GPP WG	3GPP Release	UID	IETF WG	IETF Status	To IESG	RFC Ready
21	The MAP Security Domain of Interpretation for ISAKMP	http://www.ietf.org/internet-drafts/draft-arkko-map-doi-04.txt	Low	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
22	SDP: Session Description Protocol	http://www.ietf.org/internet-drafts/draft-ietf-mmusic-sdp-new-05.txt	High	Possible	Desirable	Make FQDN and tel/e-mail addr optional	Implementations more complicated than required	CN1	Rel 5 Late	11005	MMUSIC	In progress. Needs interoperability testing	No date	No date
23	COPS-PR for outsourcing in UMTS: UMTS Go PIB	http://www.ietf.org/internet-drafts/draft-hamer-rap-cops-umts-go-00.txt	Low	Definite	Nice to Have	Use of COPS for control of 3GPP resources	Informational RFC: Needed to get IETF feedback on Go PIB.	CN3	Rel 5 Late		RAP	informational RFC	No date	No date
24	Framework Policy Information Base	http://www.ietf.org/internet-drafts/draft-ietf-rap-frameworkpib-07.txt	Medium	Definite	Desirable	Use of COPS for control of 3GPP resources	must replicate relevant information in Go PIB	CN3	Rel 5 Late		RAP	Passed WGLC. May be downgraded to informational RFC	Jan02	Apr02
25	Signaling Compression (SigComp)	http://www.ietf.org/internet-drafts/draft-ietf-rohc-sigcomp-04.txt	High	Definite	Critical	SIP compression framework and message format	Very inefficient use of bandwidth and long session establishment delays	CN1	Rel 5 Late		ROHC	In progress	No date	No date
26	SigComp - Extended Operations	http://www.ietf.org/internet-drafts/draft-ietf-rohc-sigcomp-extended-01.txt	High	Possible	Desirable	Enhanced SIP compression	Non-optimal use of bandwidth and longer session establishment delays	CN1	Rel 5 Late		ROHC	In progress	No date	No date

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27	Universal Decompressor Virtual Machine (UDVM)	http://www.ietf.org/internet-drafts/draft-ietf-rohc-sigcomp-udvm-00.txt	High	Possible	Desirable	Universal framework for decompressing messages	Very inefficient use of bandwidth and long session establishment delays	CN1	Rel 5 Late		ROHC	In progress	No date	No date
28	Integration of Resource Management and SIP	http://www.ietf.org/internet-drafts/draft-ietf-sip-manyfolks-resource-04.txt	Medium	Definite	Critical	Need resource reservation	Used in base IMS flows. IMS not viable without it.	CN1	Rel 5 Late	2522	SIP	In progress	WGLC in March02	May02
29	SIP Extensions for Caller Identity and Privacy	http://www.ietf.org/internet-drafts/draft-ietf-sip-privacy-03.txt	Medium	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 Late	2524	SIP	In progress	WGLC in March02	May02
30	SIP Extensions for Media Authorization	http://www.ietf.org/internet-drafts/draft-ietf-sip-call-auth-03.txt	Medium	Definite	Critical	Needed for media auth for billing	No robust QoS based billing. Possibility for fraudulent use of QoS	CN1	Rel 5 Late	2525	SIP	In progress	No date	June02
31	The Refer Method	http://www.ietf.org/internet-drafts/draft-ietf-sip-refer-02.txt	Medium	Definite	Desirable	Needed for 3rd parties	No call forwarding, conf calling	CN1	Rel 5 Late	11001	SIP	In progress	No date	June02
32	SIP Digest Authentication: Extensions to HTTP Digest Authentication	http://www.ietf.org/internet-drafts/draft-undery-sip-auth-00.txt	High	Definite (work based upon requirements in draft-uusitalo-sipping-authentication)	Critical	SIP Authenticagtion using HTTP Digest	Cannot authenticate SIP sessions	CN1 SA3	Rel 5 Late		SIP	InProgress	No date	No date
32	Security Mechanism Agreement for SIP Connections	http://www.ietf.org/internet-drafts/draft-arkko-sip-sec-agree-0001.txt	High	Possible (work based on requirements established in draft-uusitalo-sipping-algorithm-agreementdelegation)	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		SIPPING	Not chartered	No date	No date

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33	Path Extension Header for Establishing Service Route with SIP REGISTER	http://www.ietf.org/internet-drafts/draft-willis-sip-path-01.txt	High	Possible	Desirable	Needed to route signalling to appropriate CSCFs	Cannot ensure all necessary servers are in the signalling path	CN1	Rel 5 Late		SIPPING	Not chartered	Mar02	May02
34	HTTP Digest Authentication Using AKA	http://www.ietf.org/internet-drafts/draft-niemi-sipping-digest-aka-00.txt	High	Definite (work based on requirements established in draft-uusitalo-sipping-authentication-00	Critical	AKA in SIP	Cannot use AKA with SIP	CN1 SA3	Rel 5 Late		SIPPING	Not chartered	No date	No date
35	AAA Requirements for IP Telephony/Multimedia	http://www.ietf.org/internet-drafts/draft-calhoun-sip-aaa-reqs-03.txt	Low	Definite	Critical (needs stability, but not necessarily RFC status)	Lists 3GPP Requirements for AAA	3GPP Work in AAA may not be correct	CN4	Rel 5 Late		SIPPING	In progress	Jan02	Apr02
36	3GPP Requirements for SIP Authentication	http://www.ietf.org/internet-drafts/draft-uusitalo-sipping-authentication-00.txt	Medium	Definite (requirements are needed, but contents under discussion)	Critical (needs stability, but not necessarily RFC status)	Lists 3GPP requirements for AKA authentication (taken from Garcia)	Unable to use AKA in SIP	SA3	Rel 5 Late		SIPPING	Not chartered	No date	No date
37	Requirements for SIP Security Mechanism Agreement	http://www.ietf.org/internet-drafts/draft-uusitalo-sipping-algorithm-agreement-00.txt	Medium	Definite (requirements are needed, but contents under discussion)	Critical (needs stability, but not necessarily RFC status)	Defines requirements for negotiating security	Vunerable to Man in the Middle attacks	SA3	Rel 5 Late		SIPPING	Not chartered	No date	No date
38	Requirements for Delegation of Message Protection for SIP	http://www.ietf.org/internet-drafts/draft-uusitalo-sipping-delegation-00.txt	Medium	Definite (requirements are needed, but contents under discussion)	Critical (needs stability, but not necessarily RFC status)	Lists 3GPP requirements for key transport and delegation	Unable to distribute SIP security keys	SA3	Rel 5 Late		SIPPING	Not chartered	No date	No date

0#	Title	Link	Risk	How definite?	3GPP Priority	3GPP Need	Consequences if not done	3GPP WG	3GPP Release	UID	IETF WG	IETF Status	To IESG	RFC Ready
~~39~~	IP Multimedia Charging requirements on Diameter Accounting	http://www.ietf.org/internet-drafts/draft-olsson-ip-multimedia-charging-reqs-00.txt	High	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
~~40~~	Single Hop Message Authentication in SIP	http://www.ietf.org/internet-drafts/draft-sen-sipping-onehop-digest-00.txt	High	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
~~41~~1	EAP AKA Authentication	http://www.ietf.org/internet-drafts/draft-arkko-pppext-eap-aka-01.txt	Medium	Possible	Desirable	AKA in EAP	Cannot use AKA with alternate access methods	CN1 CN4 SA3	Rel 6		PPPEXT	Not chartered	No date	No date
~~42~~	Common Presence and Instant Messaging: Message Format	http://www.ietf.org/internet-drafts/draft-ietf-impp-cpim-msgfmt-06.txt	Low	Possible	Desirable	IM	Instant Messaging not Available	CN1	Rel 6 (not decided)		IMPP	In Progress	No date	No date
~~43~~	COPS Extensions for RSVP Receiver Proxy	http://www.ietf.org/internet-drafts/draft-nitsan-cops-rsvp-proxy-03.txt	Low	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
~~44~~	A SIP Event Sub-Package for Watcher Information	http://www.ietf.org/internet-drafts/draft-ietf-simple-winfo-package-00.txt	Low	Possible	Desirable	Presence	Presence Service not Available	CN1	Rel 6 (not decided)		SIMPLE	WGLC expected Dec01	No date	No date
~~45~~	An XML Based Format for Watcher Information	http://www.ietf.org/internet-drafts/draft-ietf-simple-winfo-format-00.txt	Low	Possible	Desirable	Presence	Presence Service not Available	CN1	Rel 6 (not decided)		SIMPLE	WGLC expected Dec01	No date	No date
~~46~~	SDP Extensions for SIP Instant Message Sessions	http://www.ietf.org/internet-drafts/draft-ietf-simple-im-sdp-00.txt	Low	Possible	Desirable	IM	Instant Messaging not Available	CN1	Rel 6 (not decided)		SIMPLE	WGLC expected Jan02	No date	No date
~~47~~	SIP Extensions for Presence	http://www.ietf.org/internet-drafts/draft-ietf-simple-presence-04.txt	Low	Possible	Desirable	Presence	Presence Service not Available	CN1	Rel 6 (not decided)		SIMPLE	Passed WGLC	Dec02	Mar02

0#	Title	Link	Risk	How definite?	3GPP Priority	3GPP Need	Consequences if not done	3GPP WG	3GPP Release	UID	IETF WG	IETF Status	To IESG	RFC Ready
48	SIP Instant Message Sessions	http://www.ietf.org/internet-drafts/draft-ietf-simple-im-session-00.txt	Low	Possible	Desirable	IM	Instant Messaging not Available	CN1	Rel 6 (not decided)		SIMPLE	WGLC expected Jan02	No date	No date
49	SIP Extensions for Instant Messaging	http://www.ietf.org/internet-drafts/draft-ietf-sip-message-00.txt	Low	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

A PDF version of this document is available here

The collaboration agreement between the 3GPP and IETF may be found here (http://www.ietf.org/rfc/rfc3113.txt?number=3113)

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
08-01-2002	5.0.1	Clarified releationship of sdp-new and sdp-ipv6, updated completion dates of several SIP drafts, removed need for H.323. interworking and SUA, responsible groups updated, ID versions updated, fixed broken links, Risk column moved, UID column added, SIP DHCP IPv6 and SIP DHCP collapsed into DHCPv6
04-02-2002	5.0.2	100Rel folded into 2543bis, fixed broken links, added drafts based upon proposed SA3 IMS security method., added new sigcomp drafts, Diameter base protocol changed to critical, split out SIP server support from DHCP-IPv6, added sip-srv draft.
26-02-2002	5.0.3	100Rel, offer-answer, and path introduced. Added drafts for sipping-digest-aka, sipping-authentication, sipping-algorithm-agreement, sipping-delegation. Removed duplicate row with Key transport requirements. ID status and dates updated according to latest agreements, competion dates for some items moved to late Rel 5 (June), Re-evaluated risk due to schedule changes, Removed ability to negotiate compression as a separate item, updated stale links.
28-02-2002	5.0.4	Added draft-undery-sip-auth. Corrected errors associated with draft-arkko-sip-sec-agree.