## 3GPP TSG SA Plenary Meeting #13 Beijing, China, 24<sup>th</sup> -27<sup>th</sup> September 2001

SP-010579

Source: Alcatel, AWS, Cingular Wireless, Ericsson, Lucent, Nokia, Nortel, Mannesmann Mobilfunk,

Siemens, Telenor, Telia, Vodafone Group

Title: IMS Rel 5 – Essential Features

Document for: Approval

Agenda Item:

The aim of this contribution is to identify a core set of features which are essential in IMS release 5. These features are seen as urgent and important.

The list of features considered was taken from the updated IMS work plan (SP010550). In some cases amendments and clarifying changes were made. The list of items was also supplemented with features from SP010425 for completeness.

TSG SA are asked to endorse this list as guidance to working group chairmen and contributors on which IMS related subjects should be given priority.

The work items were classified according to the following list:

White	No competence present.
	These items need review by experts.
Grey	No classification.
	This item is used for top level "containers" that are broken down in to smaller units later in the table
Yellow	Essential
	These are urgent and important features. IMS should not be regarded completed without these features.
Red	Not Essential
	These are less urgent or less important features. If not completed with Rel 5 timeframe, they should not delay
	Rel 5 IMS and shall be deferred to later releases.
	Even though these features are not essential this does not imply that 3GPP should stop working on them. As
	shown in the work plan they are still targeted for release 5.
Blue	No agreement
	Agreement could not be reached on whether these features are essential or not.

In addition to the contents of the table the following points were agreed:

- Some contributors felt that interworking between IMS and CS networks may be more difficult to remove from Rel 5 than to complete.
- The list of RFCs needs to be reviewed by suitable experts to see which are essential based on the list of contents shown in the table.

## New IMS feature (clean-up)

line #	Jni ID	Task Name	Acronym	Level Rel	Splitable	Resource	Approval	Start	Finish	% Compl Hyperlink	last modif	Justification
,	J.III_ID	Provisioning of IP-based multimedia	rtoronym	20101 1101	оришало	rtooouroo	приоча	Otart	i iiiiGii	гуропшк		The end date is calculated by MS
1	1273	services	IMS	1Rel5	No	WG SA1	TSG	21-Feb-2000		23% SP-000216	8-Jun-2001	Project (corresponds to completion of last WT)
2	1274	Call control and roaming to support IMS in UMTS	IMS-CCR	2	No	WG SA2	TSG	21-Feb-2000		23% SP-010339	17-Nov-2000	Same as above
3	1633	Stage 1	IMS-CCR	3	No	WG SA1		21-Feb-2000	15-Dec-2000	100%	30-Mar-2001	
4	1514	Stage 2 (Architecture and Main flows)	IMS-CCR	3	No	WG SA2	TSG	14-Apr-2000	23-Mar-2001	100% SP-000289	8-Feb-2001	
6	2233	SIP Call Control protocol for the IMS	IMS-CCR	3	No	WG CN1	TSG	2-Oct-2000	Mar 2002	15% NP-010143	30-May-2001	
7	1998	IMS signalling flows (TS 24.228)	IMS-CCR	4	No	WG CN1	TSG	2-Oct-2000	March 2002	65%	8-Feb-2001	Corresponds to 1.23 in SP010425
8	1278	IMS stage 3 (TS 24.229)	IMS-CCR	4	No	WG CN1	TSG	2-Oct-2000	Mar 2002	40%	8-Feb-2001	Corresponds to 1.23 in SP010425
9	2255	IMS Session Handling; stage 2 (TS 23.218)	IMS-CCR	4	No	WG CN1	TSG	2-Oct-2000	Mar 2002	38%	1-Apr-2000	Corresponds to 1.23 in SP010425
10	2521	IETF: draft-ietf-sip-rfc2543bis (Session Initiation Protocol)		4	No	WG CN1		24-Nov-2000	Mar 2002	0%	6-Sep-2001	End date to be confirmed. Corresponds to 1.23 in SP010425
11	2522	IETF: draft-sip-manyfolks-resource (Without COMET)(Integmanagement and SIP)	ration of resource	4	No	WG CN1		24-Nov-2000	Mar 2002	0%	6-Sep-2001	Corresponds to 1.23 in SP010425
40	0500	IETF: draft-ietf-sip-100rel (Reliability of Provisional	IMS-CCR	4	No	WG CN1		24 Nov. 2000	Mar 2002	00/	6 Can 2004	Corresponds to 1.23 in SP010425
12	2523	Response in SIP)  IETF: draft-ietf-sip-privacy (SIP extensions for caller	IIVIS-CCR	4	No	WG CN1		24-Nov-2000	Mar 2002	0%	6-Sep-2001	Corresponds to 1.23 in SP010425
13	2524	identity and privacy) IETF: draft-ietf-sip-call-auth (SIP extensions for media	IMS-CCR	4	No	WG CN1		24-Nov-2000	Mar 2002	0%	6-Sep-2001	
14	2525	authorization)	IMS-CCR	4	No	WG CN1		24-Nov-2000	Mar 2002	0%	6-Sep-2001	
15	2526		IMS-CCR		No	WG CN1		24-Nov-2000	Mar 2002			Corresponds to 1.23 in SP010425
16		IETF: draft-ietf-sip-refer (refer method)	IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002	0%	6-Sep-2001	
		IETF:draft-ietf-sip-dhcp (DHCP options for SIP servers)										NOTE! Does not presently support lpv6!
17			IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002	0%	6-Sep-2001	Corresponds to 1.23 in SP010425
18		IETF:draft-biggs-sip-replaces (SIP replaces header)	IMS-CCR	4	?	WG CN1		24-Nov-2000	?? Mar 2002	0%	6-Sep-2001	Delivery from IETF unknown
19		IETF:draft-ietf-avt-rtp-amr (AMR and AMR_WB RTP and SDP)	IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002	100 %	6-Sep-2001	Corresponds to 1.23 in SP010425
20		IETF:draft-ietf-mmusic-sdp-new (IPv6 support within SDP)	IMS-CCR	4	?	WG CN1		24-Nov-2000	?? Mar 2002	0%	6-Sep-2001	Delivery from IETF unknown. Corresponds to 1.23 in SP010425
		IETF:draft-ietf-sip-serverfeatures (sip supported header)	IMS-CCR	4	?	WG CN1		24-Nov-2000	?? Mar 2002 ??	0%	6-Sep-2001	Delivery from IETF unknown. Corresponds to 1.23 in SP010425
		IETF: draft-ietf-sip-session-timer	IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002		24-Sep-2001	
		IETF: draft-agrawal-sip-h323-intrwrkng-reqs	IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002		24-Sep-2001	Corresponds to 2.12 in SP010425
		IETF: draft-ietf-sip-callerprefs	IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002		24-Sep-2001	
		IETF: draft-ietf-sip-state	IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002		24-Sep-2001	
		IETF: draft-ietf-aaa-diameter	IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002		24-Sep-2001	Corresponds to 1.23 in SP010425
		IETF: Draft-ietf-sip-isup	IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002		24-Sep-2001	Corresponds to 3.10 in SP010425
		IETF: draft-ietf-sip-isup-header	IMS-CCR	4	?	WG CN1		24-Nov-2000	Mar 2002		24-Sep-2001	
												Move to separate feature? S3 and T2 interactions missing. Corresponds to 1.20 in SP010425
27	2529	UE Functionality Split	IMS-CCR	3	Yes	WG SA1	<del>                                     </del>	11-May-2001	December 2001	0%	6-Sep-2001	Corresponds to 1.20 in SP010425
31	2023	SDM issues for CAMEL control of IMS	IMS-CCR	4	?	WG CN4		15-Nov-2000	March 2002	10%	13-Dec-2000	Re-introduced by N4
35	1290	Addressing	IMS-CCR	3	No	WG SA2		9-Oct-2000	31-Aug-2001	51%	1-Apr-2000	
36	1291	Architectural issues	IMS-CCR	4	No	WG SA2		9-Oct-2000	31-Aug-2001	100%	6-Sep-2001	Corresponds to 1.17 & 1.18 in SP010425
37	1292	Impact on HSS	IMS-CCR	4	No	WG CN4		15-Nov-2000	March 2002	15%	13-Dec-2000	Corresponds to 1.17 & 1.18 in
42	2530	Service Examples	IMS-Sex	3	Yes	WG SA1	TSG	17-Apr-2001	21-Dec-2001	20%	NA	

43	2531	IMS Framework Report	IMS-FrWk	3	Yes	WG SA1	TSG	17-Apr-2001	21-Dec-2001	15%		NA	
44	1298		IMS-ASEC	2	No	WG SA3	TSG	4-Sep-2000	June 2002	0%	S3-010283	12-Jun-2001	Corresponds to 1.3 in SP010425
45		SIP extensions for Integrity protection		3	No	WG CN1			?				Corresponds to 1.6 in SP010425
90		IMS impacts on UICC		3	No	WG T3			June 2002				Corresponds to 1.19 in SP010425
46	1299		IMS-LI	2	No	WG SA3	TSG	4-Sep-2000	March 2002	10%	SP-000309		Corresponds to 3.3 in SP010425
		(copy) UTRAN evolutions for efficient support of			this one or		1.55	1					Work on UID1680 and 1688 not
47	1300	IMS (ROHC: UID2206 (completed), UEP: UID 1686 (not approved), header removal (not approved))	IMS-RAN	2	the one bellow	TSG RAN		2-Apr-2001	March 2002	0%	unknown	6-Sep-2001	started. Corresponds to 1.1 in SP010425
		Moved from above row: UEP: UID 1686 (not approved), header removal (not											
		(copy) GERAN evolutions for efficient support of			this one or	r	+	+				+	Corresponds to 3. in SP010425 Work just starting.
48		IMS (Header adaptation) Assume this is header removal/UEP on GERAN.	IMS-RAN	2	the one above	TSG GERAN		2-Apr-2001	March 2002	0%	unknown	6-Sep-2001	Corresponds to 2.1 & 2.3 in
70		ASSURE THE IS TO AGE TO A SECOND TO A SECO	IIVIO-IVAIN		above	GLIVAIN		2-7101 2001	IVIAION 2002	- 0 /4	IIWOWII	0-00p 200 i	Just a copy to remind that End-to
													end QoS has to be guaranteed for RT IMS. Is it interesting to introduce
52	Xxx				No	WG SA2		January 2001	March 2002				IMS if RT services are not supported?
		1) How to apply "Manyfolks" draft in UMTS											
		environment 2) QoS coordination of UMTS bearers and bearer											
		in UE and GGSN when applicable											
		3) Support for QoS for IMS signalling				<u> </u>	<u> </u>					<u> </u>	Corresponds to 1.14 in SP010425
		End to End at SIP/SDP session level End-to-end negotiation of QoS parameters on a											
		per-session basis, with respect to the subscription											
		profile, network policies, invoked											
$\vdash$		service/application End-to-end bearer establishment corresponding						++				<del>                                     </del>	Corresponds to 3.11 in SP010425
		to the QoS requirements negotiated and agreed in											
		session/service layers during session setup											Corresponds to 3.12 in SP010425
53	2048		IMS-CCR-IWIP	2	?	WG CN3	WG	28-Aug-2000	March 2002	1%06	NP-000466	30-May-2001	
		SIP-SIP Interworking (May not be any work required)											Corresponds to 2.11 in SP010425
		SIP-H323 Interworking											Corresponds to 2. 2 in SP010425
53bi s	1296	Impact on MM/CC/SM	IMS-CCR-IWMM	3	No	WG CN1	T	19-Mar-2001	March 2002	5%		30-May-2001	
													moved here (was a WT under "Interworking with other multimedia
		Interworking between IMS and CS networks							March 2002				protocols"). Corresponds to 2.9, 2.10, 3.7 – 3.10
60	2047	term return term material	IMS-CCR-IWCS	2	?	WG CN3	TSG	28-Aug-2000	28-Dec-2001	30%	NP-000465	30-May-2001	in SP010425
63	1280	SIP SS and relationship to Mg, Mw and Cx	IMS-CCR	2	No	WG CN4	<u> </u>	1-Jan-2001	28-Dec-2001	0%		1-Apr-2000	
													Requirements not clear. Corresponds to 3. 6 & 3.17 in
66	1732	Number portability in IMS	IMS-MNP	2	Yes	WG CN4	+	1-Jan-2001	June 2002	0%		6-Sep-2001	From S4 point of view completed
67	1598	(Copy) AMR-WB		2	Yes	WG SA4		4-Sep-2000	29-Jun-2001	95%		20-Mar-2001	excluding TR on performance
		Multimedia codecs and protocols for									05		·
68 69			IMS-CODEC	2	No No		TSG TSG	26-Jul-2000 26-Jul-2000	21-Dec-2001 21-Mar-2001		SP-000398 SP-000398	20-Mar-2001 20-Mar-2001	
09	2038	Codecs		<u> </u>	INO	WG SA4	136	20-Jul-2000	21-IVIAI-2001	100%	3F-000396	20-IVIAI-200 I	

70	2040			3	No	WG SA4	TSG	2-Oct-2000	21-Dec-2001	0%5	SP-000398	1-Apr-2000	Technical report, r	ot must for R5
72	2038	Recommendation on QoS parameters for various media typesTransport protocols		3	No	WG SA4		2-Oct-2000	21-Dec-2001	0%		6-Sep-2001	check if done	
74		SIP message compression	IMS-COMP		no	WG SA2			March 2002			6-Sep-2001	Corresponds to 1.:	2 in SP010425
75		Stage 2			No	WG SA2			Dec 2001			6-Sep-2001		
76		Compression signalling (link to IETF RFC needed?)			no	WG CN1			March 2002	0%		6-Sep-2001		
77		IMS Local services	IMS-LOCSER		yes	WG SA2			March 2002	20%		6-Sep-2001	Corresponds to 1.	16 in SP010425
78		Stage 3 description of IMS interfaces	IMS	3	no	TSG CN			March 2002			6-Sep-2001		
79	1286	Cx interface (HSS to CSCF) [previous name was "CSCF – HSS (Cx) applications and services"]			No	WG CN4			March 2002			6-Sep-2001	Corresponds to 1.	25 in SP010425
80		Enhancements of Mc interface (IM-MGW to MGCF)			No	WG CN4			March 2002			6-Sep-2001		
81		Mw interface (CSCF to P-CSCF)			No	WG CN1			March 2002			6-Sep-2001	Corresponds to 1.	21 in SP010425
82		Mm interface (CSCF to external IP multimedia network) May not be any work required			?	WG CN1			March 2002			6-Sep-2001		
83		Mg interface (CSCF to MGCF - interworking with CS)			?	WG CN4			March 2002			6-Sep-2001		
84		Mr interface (CSCF to MRF)			Yes	WG CN1			?			6-Sep-2001	Corresponds to 2. SP010425	8 & 3.6 in
85		Dx interface (I-CSCF to SLF)			?	WG CN4			?			6-Sep-2001	Corresponds to 1.:	26 in SP010425
86		Go interface (GGSN to PCF)			?	WG CN3			March 2002			6-Sep-2001	Corresponds to 3. SP010425	18 - 3.22 in
87		ISC (IMS Service Control) interface		2	?	WG CN1			?			6-Sep-2001	Corresponds to 1.:	23 in SP010425
													N5 has just started IMS architecture.	-
88	1310	Support of VHE/OSA by the IMS	IMS-ONOSA	3	?	WG CN5	TSG	14-Aug-2000	?	0%		16-Feb-2001	Corresponds to 3 N2 has just started	
89	12000	Support of CAMEL by the IMS Pre-pay/real-time charging in IMS	IMS-CAMEL	3	?	WG CN2		July 2001	Mar 2002	0%		16-Feb-2001		
		Note: Operator requirements for IMS charging												
91	31002	need clarification. Is content-based charging essential?	IMS-PREPAY	2	?	WG SA1		15-Jun-2001	15-Mar-2002	0%		6-Sep-2001	Corresponds to 1.3 SP010425	81.13 in
93	2242		OAM-CH/IP	2	No	WG SA5	TSG	1-Dec-2000	14-Mar-2002		SP-000524	6-Jun-2001		
94		Charging Implications of IMS architecture			No	WG SA2		Aug 2001	Nov 2001	20%		6-Jun-2001		
95	1913	Start Testing		2	No	MLST		14-Dec-2001	14-Dec-2001	0%		1-Apr-2000		
96	1844		IMS-TEST	2	No	WG T1		Mar-2002	Dec-2002	0%			Corresponds to 1.:	09 in SD010425
30	1044	Comormanice Test Aspests Trevisioning or into	IIIIO-1 EG1		NO	WOTT		IVIAI -2002	Dec-2002	070		1-Ap1-2000	Corresponds to 1.	20 111 31 010423
		Added from SP010425:												
	1208	User Authentication											Corresponds to 1.	7 in SP010425
		SIP URI (part of addressing)											Corresponds to 1.	
		Gm (UE-CSCF)											Corresponds to 1.	
	1014	Terminal support of IPv6 (IETF draft: Cellular host												
	1653	profile)											Corresponds to 1.: Corresponds to 2.	27 in SP010425 6 & 2.7 in
	2527			+ +									SP010425	
	1576	Sh (HSS – AS)											Corresponds to 2. Corresponds to 1.	
	1586	Network Domain Security											SP010425	

1298 1576 <mark>IMS secur</mark> i	ty/Confidentiality (optional)						Corresponds to 2.5	in SP010425
1142							Corresponds to 2.1	423 in
1303 OAM for II							SP010425	