

Title: (draft) **IMS NGN Requirements WID**
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Work Item Description

Next Generation Network Requirements

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

1314 – Service Requirements for IP-based emergency calls
32023 – Location Services enhancements 2
1571 – Security enhancements
32021 – IMS Phase 2
11032 - Interoperability and Commonality between IMS using different "IP-connectivity Networks
1365 – Support of Push Services
42009 - Multimedia Messaging (MMS) enhancements
2499 – Presence Capability
2544 - Multimedia Broadcast and Multicast Service
31006 – Speech Recognition and Speech Enabled Services
31008 – Generic User Profile
31010 – Digital Rights Management
31012 – WLAN-UMTS Interworking
31015 – Priority Service
31018 – Network Sharing
32016 – QoS Improvements
32030 – IP flow based bearer level charging
33002 – Subscriber Certificates
35016 – Charging Management
50544 – Generic Access to A/Gb Interface

Note: this list may not be exhaustive, and not all linked worked items are expected to be impacted, though all are related and should be considered for potential impacts

3 Justification

Various regional and international standards bodies (e.g. ETSI, ATIS, and the ITU-T) have taken up the challenge of developing standards for Next Generation Networks (NGNs). It is anticipated that 3GPP IMS specifications will serve as the basis for NGN specifications, and that enhancements will be

needed to IMS specifications. A single 3GPP requirements specification that collects requirements is needed to ensure system wide specification consistency and end-to-end interoperability.

Note that in the absence of an NGN Requirements specification, requests from different regional and international standards bodies may be received without co-ordination. This could lead to increased work and possibly conflict both at the architectural level (e.g. SA2), and at the protocol level (e.g. CN groups).

4 Objective

This work item provides for the development of a single NGN requirements specification that provides direction for enhancements to 3GPP IMS specifications enabling IMS to serve as the basis for NGN. Issues related to the reuse of IMS for NGN include, but might not be limited to the following:

- Identities and Devices
- Subscription and Databases
- Security and Privacy Requirements
- Charging Requirements
- End-to-End QoS and QoS Apportionment
- Services and Service Capabilities
- IP Interworking Requirements (IP version, etc.)
- External Network Interworking Requirements
- Call Control Requirements (e.g. SIP Profile requirements)
- Network Management Requirements
- WLAN Access to IMS

5 Service Aspects

Service aspects require further consideration as part of this work item. It's expected that consistent stage 1, 2, and 3 specifications will be developed.

6 MMI-Aspects

No MMI aspects are expected in the context of this WI.

7 Charging Aspects

Possible impacts on the 3GPP system require further consideration as part of this work item.

8 Security Aspects

Possible impacts on the 3GPP system require further consideration as part of this work item.

9 Impacts

Affects:	UICC apps	ME	AN	CN	Others
Yes				X	
No	X	X	X		
Don't know					X

Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
	Next Generation Network Requirements	3GPP SA1				
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
		<i>To be determined</i>				

11 Work item rapporteurs

Randolph Wohler, SBC Communications, Inc.
Martin Fuller, BT

12 Work item leadership

3GPP SA1

13 Supporting Companies

BT, Cisco, SBC Communications, Inc., Telcordia Technologies, TruePosition,
others to be determined

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)