Source: Interim Rapporteur (Toshiba Corporation)

Title: WI 2 Description for Video Telephony Service

Agenda Item:

x.1 TSG SA Work Area

	WG1: Services
	WG2: Architecture
	WG3: Security
X	WG4: Codec
	WG5: Network Management

x.2 Justification

Whereas 3G networks will provide sufficient bandwidth and QoS to support video telephony, the specification of a video telephony service will enable terminals capable of low-cost, high-quality, real-time, two-way video communications. Additionally, a public specification of such a service will allow interoperability of different manufacturers' equipment, thus broadening the potential market for such devices.

x.3 Intended Output of the Work Item

Technical specification of the low-bitrate, video telephony service in 3G systems:

General description
Specification of OSI layer 3 and/or layer 2 interface to the W-CDMA (and possibly TD-CDMA) network
Required and optional video codecs
Required and optional speech codecs
Error correction and/or concealment methodologies
Terminal-to-network call setup and termination
Terminal-to-terminal call setup (master/slave determination, cap's exchange, etc.) and termination
Multipoint calling (if desired)
Interoperation with H.324, H.324/I, H.320 and H.323 systems

Technical reports on the performance characteristics of the low-bitrate, video telephony service in 3G systems:

Delay, skew and jitter limits
Error correction and/or concealment capabilities for given error characteristics (possibly belongs in WI 3)
Maximum call setup time

x.4 Impact on other Technical Specifications and Technical Reports

Affects:	USIM	ME	NW	Others
Yes		X	X	
No	X			
Don't know				

x.5 Technical Scope, including the field of application of the intended output

A 3G video telephony service should first address low bitrate, circuit switched networks, since this range represents the most basic structure of IMT 2000 networks. Such a service should also make efficient use of the available bandwidth. Additionally, special attention must be made to the error prone nature of radio based networks.

All these requirements are best addressed with H.324/M. Where H.324/M falls short, other relevant standards will be used. These shortcomings may include speech and/or video codecs. Additionally, call setup and termination will likely differ from that described in H.324.

Finally, since the system as a whole must function efficiently, liaisons to other 3GPP groups will be used to develop the overall system aspects of IMT 2000 hosted H.324/M.

x.6 Impact on and Linked 3GPP Work Items

Impacted:

TSG-SA WG1

Linked:

TSG-SA WG4 WI3
TSG-SA WG4 WI1
TSG-SA WG5

x.7 Schedule of tasks to be performed

Detailed work program to be defined during the 3GPP TSG-SA WG4#2 meeting	February 1999
Work item to be approved in TSG-SA#2	March 1999
Baseline technical specification of video telephony service	April 1999
Final technical specification	December 1999

x.8 Supporting Members

Individual Member Organization	Representing Partner

x.9 Work Item Rapporteur

WI2 Rapporteur to be identified during the 3GPP-SA WG4 meeting #2 (February 24-26, 1999)

x.10 Responsible TSGs

TSG SA WG4 (Codec)

x.11 Existing Reference Documentation

See 3Gpp/TSGS4#2(99)015.