

Text version of Gunnar Hellstrom's Power Point Presentation
Most slides had graphics. Those slides where graphics were present are indicated in this text document.

Slide 1

Accessibility raised to the power of ³
Access opportunities in IP based services.
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Graphic: Photography of a person signing to her notebook computer with no wires in a travel environment.

Slide 2

Accessibility raised to the power of ³
VoIP technology gives us the opportunity to improve personal communication
Leave inaccessible voice telephony behind.
Use three media in the calls
Video, with quality for
 signing, lip-reading,
 recognition, feelings, showing...
Text, character-by-character for
 conversation, addresses, numbers,
 spelling...
Voice, for conversation, feelings, ...
Satisfy all needs in one universal service in IP with global interoperability.
Graphic: Text under photograph reads "User interface for three media in the call"
Computer screen with large window of woman using sign language. She is wearing a "hands-free" microphone. At the top right corner of the monitor, there is a smaller window of a man using sign language. At the bottom of the screen, there are two smaller windows that display the text of the conversation.

Slide 3

Example with deaf-blind user. •In this case:
–Sign language from the deaf-blind user
–Text back, displayed on braille display
•Many other combinations possible
Graphic: Caption above photograph "Usability verified in Swedish project 2003".
Photograph of woman using a computer. View is looking over her left shoulder, and the computer screen and a small camera is visible. Attached to the keyboard is a refreshable braille display, which the woman is using. The screen

displays a large window with face and upper body of a person, smaller window of person using sign language in upper right corner, and two text windows at the bottom of the screen, the screen on the left full of text..

Slide 4

Example from communication between deaf and hearing persons

- Text for main conversation
- Video for acknowledgement, recognition, showing things, feelings
- Take any other situation and find that the video-text-voice combination is the solution.
- More value the more widespread it becomes

Graphics: Caption under photograph: 3G communication in video, text and voice. Photograph of a man using a small hand-held computer, taken from behind his left shoulder, with the screen of the computer visible. There is a camera in the upper edge of the screen. The hand-held computer has a wire that is attached to a wireless phone. The computer screen has the same characteristics of the screen in Slides 2 and 3.

Slide 5

Personal communications networks for all

A growing accessible conversation network

Graphics: In center, dark blue 'cloud' titled SIP network over internet. Below this dark blue 'cloud' is a graphic indicating a connection to a sip server—a SIP registrar for address resolution. To the left of the dark blue 'cloud' is a series of five yellow boxes.

From bottom to top,

box yellow-1, connection to a LAN, with photos of three computers

box yellow-2, connection to a SIP videophone, SIP phone, and SIP text phone

box yellow-3, photograph of a PC, titled Private WLAN

box yellow-4, photograph of a PC, titled Public WLAN

box yellow-5, titled 3G, photograph of a PC, wireless phone and PDA

Next to the 5 yellow boxes is one light blue box, titled "Sign Language Relay Service and Text Relay Service". Photograph of a PC, with keyboard, hands-free microphone, monitor and camera. On monitor, a sign language user is visible.

This light blue box is connected to the dark blue 'cloud' AND a purple 'cloud' titled "PSTN".

Next to the light blue box is a series of three tan boxes. Each of the tan boxes connect to the purple PSTN 'cloud'

From top to bottom

Box tan-1, photograph of a mobile phone, and voice telephone

Box tan-2, photograph of a text telephone

Box tan-3, photograph of a voice telephone and a text telephone, and an indication of 'emergency services'

Between the dark blue 'cloud' and the purple 'cloud' are two connecting paths. One path is titled "Voice Gateway" and the other path is titled "Text Gateway"

Slide 6

But standards must be applied to achieve global interoperability

Good standards exist for the call and the three media.

Promote one preferred set of default standards:

IETF SIP Call control

H.263 Video

T.140/RFC2793 Text

G.723.1 Audio

Use subsets for voice only, text only, voice and text etc.

Good continued standardisation in IETF, ITU, 3GPP, ETSI, TIA ensures maintained interoperability

Graphic: Photograph of a man using a small hand-held computer, taken from behind his left shoulder, with the screen of the computer visible. The hand-held computer has a wire that is attached to a wireless phone. Hand-held computer screen has the same characteristics of the screens in Slides 2 and 3.

Slide 7

Put the user in the center

Same communication for all services

Different terminals, same standardised communication opens for efficient services for personal needs.

Graphic: Photograph of two women signing into hand-held computer. Outside photograph, a series of boxes of features, and arrows indicating the ability to use any of the features needed. Box subjects: text relay service, video relay service, emergency services, signing users, text users, Voice VoIP user and gateway. Off of the 'gateway' box, there are two other boxes titled text telephone (TTY) users, and voice telephone users.

Slide 8

Join in implementation of accessible personal communication for All !

Without harmonization, the benefits will be missed

The IP revolution is a too good opportunity to be missed.

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Graphic: Two photos on top of each other. Top photograph is a man sitting at a computer. The man is wearing a hands-free microphone, smiling. Bottom photograph is a computer monitor, and the screen displaying the same characteristics of the screens in Slides 2 and 3.