



European Commission
DG Enterprise & Industry

"Standard and Interoperable satellite solution to deploy health care services over wide areas"

Open Broadband Telemedicine

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The WSIS (World Summit on the Information Society) in Tunis has been the opportunity to demonstrate first examples of DVB-RCS telemedicine services in the frame of the Healthware project. It has been successfully demonstrated a multipoint videoconferencing session (simulation of a tele-staff) including very heterogeneous networking technologies, software and hardware end-points as well as mixing H320 and H323 protocols.

The **NGN module** is the core sub-system of the solution and allowed to interconnect different kinds of participants in the same session, either in urban or rural or very isolated areas, fixed or mobile. This demonstration is a first step in addressing interoperability and standards for open telemedicine services.

Figure 1 describes the architecture of the demonstration :

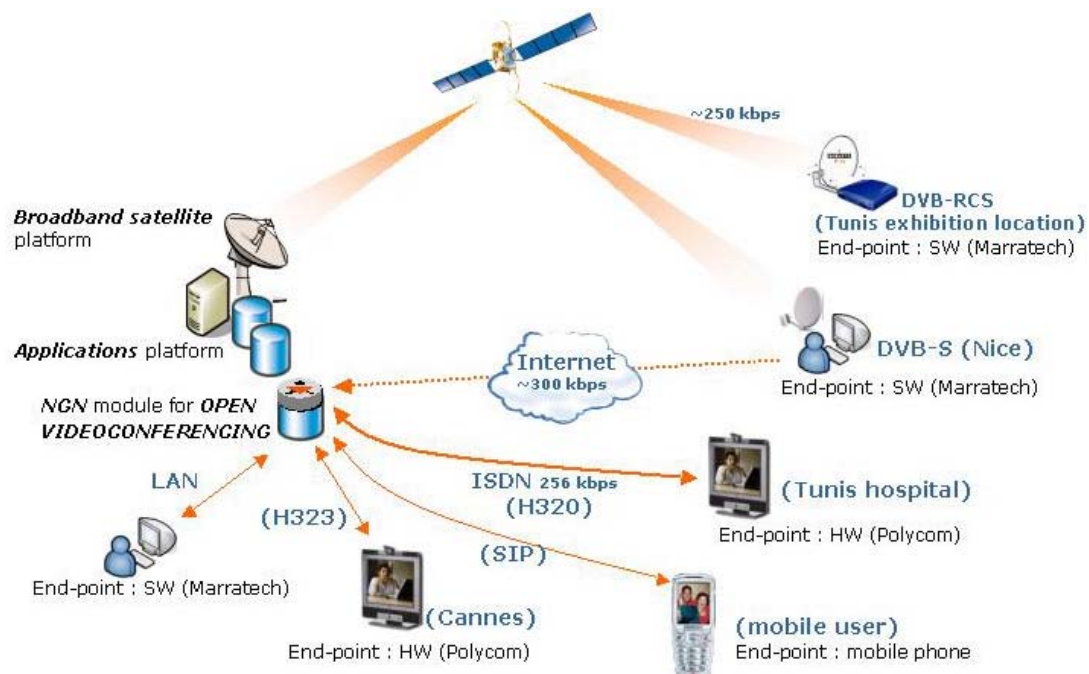


Figure 1 : Demonstration's architecture

For the purpose of the demonstration, the following participants were involved :

- ▶ One user located in Nice hospital (France), equipped with the Alcatel 9722 DVB-S satellite system. Tunnelling mechanism allowed to set up a 300 kbps return channel over the Internet. The user was using the Marratech software to connect to the Alcatel Alenia Space applications platform,
- ▶ One user located in Tunis at WSIS (Tunisia), equipped with the Alcatel 9780 DVB-RCS satellite system. Bit rate over the return channel was set up to 250 kbps. The user was using the Marratech software to connect to the Alcatel Alenia Space applications platform,
- ▶ One user located in Tunis hospital (Tunisia), using a H320 Polycom system to connect to the Alcatel Alenia Space applications platform via ISDN (256 kbps),
- ▶ One user located in Cannes (France), using a H323 Polycom system to connect to the Alcatel Alenia Space applications platform,
- ▶ One user located in Cannes (France), using the Marratech software to connect to the Alcatel Alenia Space applications platform over the LAN,
- ▶ One user invited to discuss via its mobile phone due to the ability of the Marratech software to call out to SIP (Session Initiation Protocol) devices such as internet phone, traditional land line or mobile phone.

As a result, Figure 2 shows the Marratech user interface with the different participants in the session, as it was observed on end-points running the Marratech software.

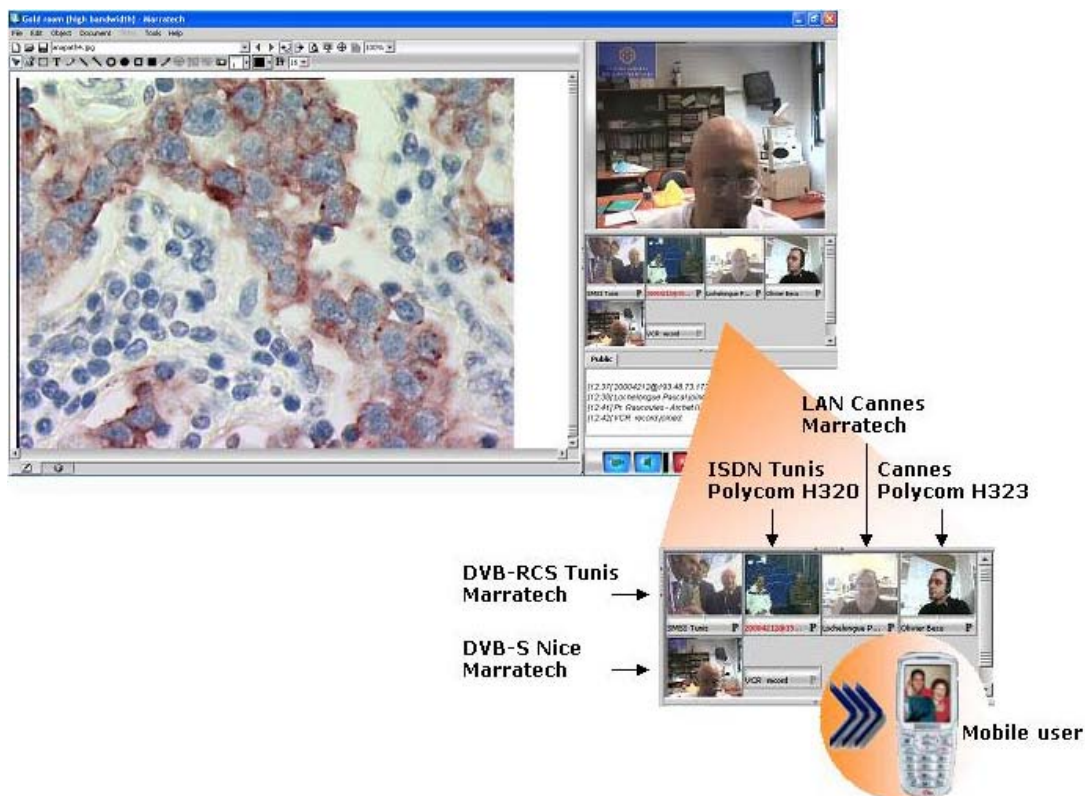


Figure 2 Participants in the session