TEST REPORT EMBLAZE-VCON VPOINT HD 7.0

PDF-Version (optimized for print)

GENERAL

Testing period
The vPoint HD 7.0 was tested in the VCC in July/August 2006.

SW-Version
Emblaze-VCON vPoint HD 7.0

Device class
The video conference system vPoint HD 7.0 is a software-client for the operating systems Windows XP and Windows 2000. An USB-dongle enables the work of the software. The vPoint HD FREE 30-Day Trial Version demands this dongle from the 31. day on. The dongle can be placed at the gateway even after having launched the program. The program operates immediately in this case.

Provided the vPoint HD 7.0 is used simultaneously with the Media Xchange Manager (MXM) by Emblaze-VCON, the licensing can be carried out by this combination. A dongle is not required in this case. After having registered to MXM, an unlimited release takes place. (Info: O. Götz, Friedrich-Schiller-Universität Jena)

Scope of Delivery
The software is to be purchased on the internet page of the producer Emblaze-VCON and may be utilized provided the USB-dongle is already at one´s command. The software may also be purchased on a CD along with the USB-dongle.

Bandwidth
The video conference system enables video conferences in a LAN-area with up to 4 Mbps.

INSTALLATION

The minimum conditions for the hardware are fulfilled by a Pentium IV PC with 1.6 GHz. For the utilization of H.264 a HyperThread-sciential CPU, an Intel Centrino CPU 1.2 GHz, an Athlon XP 2600 or an Athlon 64 2800 are essential. Installation details are to be found in the test report of the preceding version VCON vPoint HD. The installation was carried out fluently during the test.

TEST

Handling
It is highly recommended to select English as the language for the operator interface in [Control/Settings/Display] (Control/Settings/Display) after having carried out the setup and the first launching of the software. The by default low adjusted bandwidth should be increased to at least 1536 kbps or more. The standard hook for registration to the online-index (=IL-server) should be removed in the dialogue [Control/Settings/Network/Details/Index]. Reasons are given in our guidance to configuration. The program interface can be changed via four different modi from mini-mode to complete picture. The program is self-explanatory concerning the handling apart from these facts.

Audio/Video
The tests with all available devices in the VCC were processed in good or even very good audio and video quality. The quality of the video conferences depends stronger on the PC-hardware at hand and the settings in the operating system when this exclusively software-based VC-client is used in place of other VC-devices. Contingently changes in other programs might influence the operating vPoint HD 7.0 immediately particularly in the audio-field.

**H.264**

The software-client Emblaze-VCON vPoint HD version 7.0 can now send and receive the video format H.264 up to a bandwidth of 512 kbps. This could be proven in all tests, provided the remote station had implemented this codec.

**H.239**

The possibilities of data presentation and data sharing have increased. It is of course still possible to confer a free right to use for the display on the entire desktop. But it is also possible to only present a selected part of the desktop to the remote station. Size and position may be chosen freely. Furthermore, an arbitrary file can be displayed which is started automatically with the corresponding application after selection on the own PC. It is then displayed to the remote station. An arbitrary Windows frame can be selected and presented to the remote station further on. Every object which is moved to the position of the selected window is also transmitted.

A PowerPoint-presentation with various test slides was used in order to evaluate the transmission of H.239. It became apparent that the vPoint HD 7.0 as a receiver of the data stream presented font sizes from 8 pixels on well readable if it was used in full screen mode. Images were also displayed in convenient quality. The devices which were utilized as remote stations showed varying quality of readability. It ranged from 8 to 18 pixels. The quality of displayed images also oscillated between determined and badly-determined.

**Remote control**

The remote control was always able to work in both directions, provided the technical preconditions at the remote stations were set.

**MCU**

Very good audio and video quality were achieved when testing with the Codian MCU 4220. The moving picture was displayed very delayed in case a H.239 data stream was sent. With the RADVision viaIP 400 it was possible to achieve very good audio quality. The video quality is to be ranked as good because the video was slightly blurry. Moving images were displayed rather blurry sometimes.

**Gatekeeper**

Cooperation with the gatekeepers GNU-GK 2.0.7 and CISCO MCM was carried out fluently.

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**CONCLUSIONS**

The system Emblaze-VCON vPoint HD 7.0 is a software-based VC-system which is recommended for used for video and audio conferences with H.239 functionality at the working place. A high-capacity PC is necessary as recommended in the minimum conditions of Emblaze VCON so as to use the entire range of functions.

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**TECHNICAL DATA**

Producer: Emblaze-VCON
Distributor: Pan Dacom
<table>
<thead>
<tr>
<th>Supported Standards</th>
<th>H.323</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Coding</td>
<td>G.711, G.722, G.722.1, G.723.1, G.728, G.729, ACC-LD</td>
</tr>
<tr>
<td>Video Compression</td>
<td>H.261, H.263, H.263+/++, H.264 (sending up to 512 kbps)</td>
</tr>
<tr>
<td>Video format</td>
<td>CIF, QCIF, QVGA, HDTV(1280-720)</td>
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</tbody>
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Thanks to Emblaze-VCON and Pan Dacom for supplying the test.