HONORABLE JUDGE MONICA TERAN
JUSTICE OF THE PEACE PCT. 5
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JUSTICE OF THE PEACE

PRECINCT FIVE

August 29, 2007

Honorable Delia Briones
County Clerk
500 E. San Antonio, 1st Floor
El Paso, Texas 79901
Attn: Pat Pietzyk

Dear Mrs. Briones:

    I would appreciate your assistance with the following posting for the **Regular** Commissioners Court Agenda on **September 10, 2007**.

Authorize and approve the purchase of technology items listed below. Monies for these items are available from the JP Technology fund 6204 that only can be used for Justice Court technology.

Widescreen Video Conferencing Unit	$38,000.00
2 Scanners @ 2,500.00 each	$ 5,000.00
	$43,000.00

Respectively submitted,

Judge Monica Teran

Minimum Equipment Specifications – High Definition Video

A. Conference Room or Set Top Video Conferencing System Requirements

1. VTC solution should provide support for far end camera control during an internal MCU call for all participants.

2. Set top or room based system should provide support for portions of both H.323 and SIP based communication protocols

3. The VTC system should support both the H.264 and H.263 communications protocols

4. The VTC system should provide support for up to native 16 khz super wide band audio codec algorithms including:

5. Communications, the VTC system should support calls from 128Kbps – 2.5Mbps when using IP as the native protocol per channel, up to 5mpbs total bandwidth volume without upgrades or additional cost

6. The VTC system should support up to 5 megabytes per total communications per unit

7. The VTC system should support multiple displays including Plasma flat panel display, LCD and DLP monitors with at least a native resolution of 1280x72o or 720p displays

8. The VTC system should support and include a high definition camera with at least 70 degrees field of view and a native 1280x720 resolution in the 16:9 aspect ratio with a frame rate of at least 30fps

9. The VTC system must support a NATIVE 16:9 aspect ratio without artificial stretching from a 4:3 aspect ration

10. The VTC system should support at the minimum the following video inputs

   - 1x High Definition Camera
   - 2 x S-Video
   - 2 x RCA In
   - 1 x VGA

11. The VTC system should support at the minimum the following video outputs

- 2 x VGA
- 1 x Component
- 2 x S-Video
- 1x Composite
- 1 RCA Out

12. The VTC system should support at the minimum the option for both a stand alone speaker phone and external microphone integration.

13. The VTC system should at a minimum support high definition audio with the following features

- Full duplex for natural conversations
- Internal echo cancellation for echo-free calls
- Automatic gain control
- Automatic noise reduction with audio QOS

14. The VTC system should support at the minimum the following audio codec's:

- G.711
- G.722
- G.722.1
- G.729
- MPEG-4 AAC

15. The VTC system should support at a minimum the following audio inputs

- 1 x RJ-45
- 1 x RCA line level in
- 1 x RCA line level output

16. The VTC system should support at a minimum the following audio outputs:

- 1 x Main audio output (L+C+R)
- 1 x RCA output

17. The VTC user interface should support the following features at a minimum

- High definition, context sensitive user interface
- Wireless I/R remote
- Connect participants from integrated microphone or using the IR control
- Localized language support for up to 9 languages
- Customizable front screen with additional backgrounds
- Selectable camera icons and preview of secondary source material in real time

18. The VTC system should support auto H.323 and SIP negotiation based on dialing preferences from microphone or user interface

19. System should provide camera cord extension up to 25 feet (6 meters) from codec to camera

20. VTC solution should support 2 RS 232 connections from the back of the codec with integration to AMX or Crestron panels or command line interface communication panels

21. The VTC system should support 2 high definition (1280x 720 resolution) video streams in a single call (commonly know as H.239)

22. The VTC system should support the following native PC input resolutions:

- 1280x1024
- 1280x768
- 1280c720
- 800x600
- 600x400

23. The VTC system should support a native 16:9 aspect ratio with at least a 1280x720 resolution and 30 frames per second at 1 megabyte and above data connection speeds

24. The VTC system should support the H.239 protocol in true high definition 1280x720 resolution

25. The VTC solution should included at a minimum support for up to 4 MCU ports with at least 1280x720 resolution in each connection

26. The VTC solution should provide support for the H.239 protocol without additional license or cost. Cost for H.239 should be embedded in current MSRP price

35. The VTC solution should support automatic upspeeding during an MCU based call once the lost data rate participant is disconnected

36. The product should support automatic upspeeding and downspeeding

37. The VTC solution should support up to 4 participants at 1280x720 resolution per connection without the aid of an external participant and in a continuous presence layout

38. The VTC system should allow for automatic up speeding and down speeding dependent on the connection made available during the call.

39. The product must support full high definition 1280x720 resolution in the secondary stream (H.239) during an internal multipoint call.

40. The product must support DTMF dialing from both the wireless remote and the external microphone pod for ease of use.

41. The product will provide users with the means to negotiate static firewall/NAT boundaries natively.

42. The product should support registration to IP PBXs such as:

   - Cisco Call Manager 4.x and above
   - Avaya 8700 IPPBX Media Server
   - Asterisk
   - Broadsoft

43. Product should include an RJ-11 connection for PSTN based calls

44. Product will provide Differentiated Services support (DiffServ) on the TOS bit (QOS)

45. Product must support content sharing with the LifeSize Room solutions in a multipoint conference

46. Product must support interoperability with Polycom, Tandberg, Sony and LifeSize endpoints

27. The VTC solution should include native H.239 support within the codec without use of external desktop equipment or additional cost

28. The VTC solution should provide support for far end camera control of 3rd party video systems such as Polycom Incorporated, LifeSize Communications and Tandberg endpoints

29. The VTC system should be compatible with a software management solution that can manage and schedule Polycom, Tandberg and LifeSize endpoints.

30. The video conferencing solution should support at the minimum the following video resolutions in a 16:9 aspect ration and at 30 frames per second including:

   - 480x272 pixels 128 Kbps
   - 672x384 pixels 384 Kbps
   - 848x480 pixels 512 Kbps
   - 1024x576 pixels 768 Kbps
   - 1280x720 pixels 1 Mbps and above

31. The system should provide support for both high definition 1280x720 and SD/NTSC based cameras

32. The VTC system should include at no additional cost a high definition camera with the follow attributes:

   - Pan/tilt/zoom
   - Resolution: 1280 x 720, 30FPS
   - Wide-angle zoom lens
   - 70 degree field of view
   - Auto focus
   - Automatic gain control
   - Auto white balance
   - 45 degree tilt
   - 90 degree pan

33. The VTC system should provide support for 1280x720 resolution at 1 megabyte and above data connection speeds with a minimum of 30 frames per second

34. The VTC system should support the ITU ratified 802.3af protocol for power over Ethernet up to 328 feet.

From: Linda Chavez
Sent: Wednesday, August 29, 2007 4:40 PM
To: Patricia Pietzyk
Cc: Eileen Ashley
Subject: Agenda for Sept. 10, 2007

Attachments: Comm. Agenda (Complete).pdf

Comm. Agenda
(Complete).pdf (2...

Pat,

Here is the agenda for September 10, 2007 that Eileen needs put in for Commissioner's Court.

Thank you,

Linda Chavez