

VIDEO DISPLAY

This reference manual should be inserted at the back of the Startup user manual.

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ABOUT VIDEO DISPLAY

What is Video Display?

The Video Display module is one of the DCN software modules designed to be used in conferences and discussions using the DCN contribution equipment.

Its function is to interface the DCN software with conference video displays. The Video Display module provides a means of displaying conference-related information on video displays located in the conference venue. The information can consist of text, numbers and graphical elements like bar charts. All the information displayed is generated by other DCN modules, and it is not possible to alter this information in Video Display.



NOTE: *If information is to be displayed on video displays, data must be converted within the DCN control PC or transferred to a separate PC via an ethernet link.*

To use Video Display, it is necessary to have a Video Display (VD) Client application. The VD Client application receives the information which is passed to it from the Video Display (server) module. The user can change settings related to how information is displayed on the video screens, such as text or background colours. This can be carried out either during or after installation of the VD Client software. The VD Client application is supplied with the DCN installation disks.



NOTE: *It is not possible to use VD Client running on Windows 95 or 98 when Video Display is running on Windows NT 4.0 or Windows 2000. It is advisable to use the same operating system for both the VD Client and the Video Display server.*



NOTE: *The VD Client must be started after the Video Display server has been started.*



NOTE: *The source code for this application is supplied on the VD Client installation disks. It is therefore possible to alter this application using a Dynamic Data Exchange (DDE)-compatible package such as Visual Basic.*

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This VD Client application accepts four different types of display information:

- Voting Results display. This information is generated using the Parliamentary Voting module (LBB 3575) and the Multi Voting module (LBB 3576) and consists of a voting motion and the results of the vote on that motion.
- Message display. This information is generated using the Message Distribution module (LBB 3582) and consists of a conference-related text message (e.g. when and where lunch will be, or when tomorrow's session will begin).
- Microphone Information display. This information is generated either using the Microphone Management module (LBB 3570) or the Synoptic Microphone Control module (LBB 3571). It consists of a list of delegates whose microphones are active and those waiting to speak.
- Attendance registration display. This information is generated using the Attendance Registration module (LBB 3578). It consists of information about how many delegates are absent or present.



NOTE: Display data can only be shown when the DCN software module which generates the data is running. For example, voting data can only be supplied when a voting application is active.



NOTE: It is also possible to display DCN conference information using numeric displays, alphanumeric displays and geographic displays. For more information, please refer to the user manual for Text/Status Display (LBB 3583).

Video Display is unlike all other DCN modules in that there is no user action required to operate it. It carries out its function - interfacing the DCN software with video displays - automatically. This document is therefore not a user manual but a reference manual. It gives information on default settings, installation and examples of typical displays containing microphone information, messages and voting results.



NOTE: The DDE information which is available within the DCN system is described in the DCN External Interfaces document (3922 988 5101X).

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VIDEO DISPLAY INSTALLATION

In order to be able to use the Video Display application while running on Windows NT 4.0 or Windows 2000, some extra settings must be made in Windows. This is not necessary for Windows 95 and Windows 98.

Windows NT 4.0

Windows NT 4.0 does not automatically start the Network DDE service needed for the DCN Video Display application. This can be changed by carrying out the following steps:

- Make sure you are logged in with administrator rights.
- From the 'Start' menu, go to 'Settings' then 'Control Panel'.

The Control Panel will open.

- Double-click on 'Services'.

The 'Services' window will open.

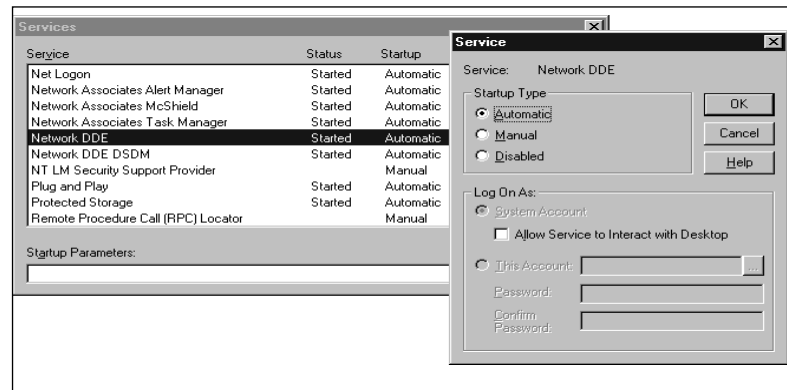


Fig. 1 The 'Services' window

- Double-click on 'Network DDE', and change the Startup type to 'Automatic'.
- Double-click on 'Network DDE DSDM', and change the Startup type to 'Automatic'.

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Windows 2000

Windows 2000 does not automatically start the Network DDE service needed for the DCN Video Display application. This can be changed by carrying out the following steps:

- Make sure you are logged in with administrator rights.
- From the 'Start' menu, go to 'Settings' then 'Control Panel'.

The Control Panel will open.

- Double-click on 'Administrative Tools'.

The 'Administrative Tools' window will open.

- Double-click on 'Services'.

The 'Services' window will open.

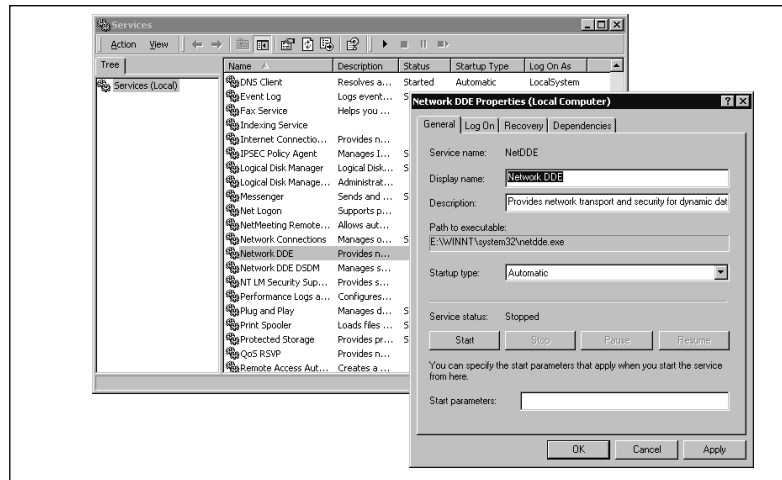


Fig. 2 The 'Services' window

- Double-click on 'Network DDE', and change the Startup type to 'Automatic'.

Double-click on 'Network DDE DSDM', and change the Startup type to 'Automatic'.

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VD CLIENT INSTALLATION



NOTE: In multi PC systems, it is recommended that VD Client is not installed on the same PC as Video Display. VD Client can run on more than one PC.



NOTE: Before installing the VD Client software, make sure no applications or TSR (terminate and stay resident) programs are running.

To install VD Client from the DCN software installation CD-ROM:

- Select the 'Start' button on the Windows Taskbar and click on 'Run'.

A dialogue box appears.

- Type <D:\video\cdrom\setup.exe> in the edit field and click on the 'OK' push button.

If your CD-ROM drive has a letter assigned other than D, enter that letter in place of D. Follow the instructions that appear on-screen.

It is also possible to install the VD Client software using floppy disks. To do so:

- Start the Windows Explorer and explore the CD-ROM.
- Go to the directory: \Video\Disk1.
- Label a blank floppy disk '*LBB 3590 VD Client Diskette 1/2*' and insert it into the floppy drive.
- Copy all the files on Disk 1 of the CD-ROM onto the floppy disk.
- Repeat the above procedure for the directory \Video\Disk 2 on the CD-ROM, naming the floppy disk '*LBB 3590 VD Client Diskette 2/2*'
- Insert '*LBB 3590 VD Client Diskette 1/2*' into the floppy drive.
- Select the 'Start' button on the Windows Taskbar and click on 'Run'.

A dialogue box appears.

- Type <A:setup.exe> in the edit field and click on the 'OK' push button.

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If your floppy drive has a letter assigned other than A, enter that letter in place of A. Follow the instructions that appear on-screen.



NOTE: *If the installation fails because the VD Client setup program detects a conflict with a running application or an in-use DLL, re-run the installation program making sure no applications or TSR programs are running.*

The setup programme will ask in which directory the application should be placed (the default directory is C:\VDCLIENT). A different directory can be entered in the edit field which is displayed. Follow the instructions which appear on screen.

While installation is taking place, it is possible to define certain parameters relating to VD Client. These are:

- the name of the PC to be used as the DDE server (\servername\ndde\$) for Windows 95, 98, 2000 and NT)
- whether a bitmap is to be used as a background
- the background colour
- the colour of the static foreground and variable foreground text



NOTE: *Static foreground text is fixed and cannot be altered, whereas variable foreground text differs according to the information the Video Display module receives from other DCN modules.*

These parameters can be defined in the dialogue boxes which are displayed during the installation procedure. The default colours are as follows:

- Background colour - blue
- Static foreground text - yellow
- Variable foreground text - white

You can leave the default settings as they are, or alter them so suit personal preferences.



NOTE: *These settings can also be changed once installation is complete. For more details, please refer to page 9.*

Once installation is completed, the following message appears:

'VDCLIENT Setup was completed successfully.'

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A new program group will be made with a new program item. The source files are located in the subdirectory DISPLAY\VDCLIENT of the directory where the VD Client is installed. By default this is C:\VDClient.

It is also possible to install VD Client on a second PC connected using an Ethernet link. The second PC will then be able to display supplied information for video projection devices and video displays.



NOTE: *VD Client can only be installed on a second PC using floppy disks.*



NOTE: *During installation on a second PC running Windows 95 or 98, certain parameters must be defined as described on page 5.*

If the second PC is running Windows 95 or 98, the Netdde.exe file in the Windows directory must be added to the Startup group in Windows 95 or 98. To do so:

- From the 'Start' menu on the Windows Taskbar select 'Settings' then 'Taskbar'.

The Taskbar Properties dialogue box will appear.

- Click on the 'Start Menu Programs' tab.

- Click on 'Add'.

The Create Shortcut dialogue box will appear.

- Click on 'Browse', and select the Netdde.exe file in the Windows directory.

- Click on 'Open'.

- Click on 'Next'.

The Select Program Folder dialogue box will appear.

- From the list of folders, select the 'Startup' folder.

- Click on 'Next', and then on 'Finish'.

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STARTING AND EXITING VIDEO DISPLAY AND VD CLIENT

The Video Display server is started from the DCN Startup screen of the PC that will act as DDE server. This is shown below:



Fig. 3 The DCN Startup screen

The Video Display icon

For details on the Video Display icon and how to start Video Display from Startup, please refer to section 3.2 of the Startup user manual, under the heading 'Opening other modules from Startup.'

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Exiting Video Display

To exit Video Display:

- Click once with the right mouse button on the 'Video' icon.
- Select 'Close' from the menu which appears.

You will exit Video Display on the DDE server.

Starting and exiting VD Client

In your Windows desktop there may be an icon representing the VD Client application.

To start the VD Client application:

- Double-click on the VD Client icon.

If there is no VD Client icon in the Windows desktop, the VD Client application can be loaded as follows:

- From the 'Programs' option of the 'Start' menu, select 'Vdclient'.

The VD Client application will start.



NOTE: *The VD Client application can only be started when the DCN Video Display application is running on the server PC.*

To exit VD Client:

- Press the <ESC> key.

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ALTERING VD CLIENT PARAMETERS

Introduction

The VD Client parameters can be altered either during installation or, at any time, from the command line in the VD Client application. For information about altering parameters during installation, see page 5.



NOTE: The Video Display application is configured for a resolution of 640 x 480 pixels. It is always shown full-screen without borders. It can still work at a higher resolution (e.g. 800 x 600 pixels), but this has the disadvantage that large areas of the screen will contain no information.

Altering parameters using command lines

VD Client parameters can be changed from the application command line. Before doing so, you must first create a shortcut to the program. For more information, refer to the relevant Windows 95 documentation. When a shortcut has been created, the program will appear as an icon on the desktop. To alter parameters from the command line:

From the Windows desktop:

- Select the shortcut icon using the right mouse button
- Select 'Properties' from the drop-down menu which appears.

The 'Properties' dialogue box will appear.

For information on accessing the command line from this dialogue box, refer to the relevant Windows 95 documentation.

- Type in the required parameters in the command line as described below.



NOTE: The parameters given below should first be prefaced by:
C:\vdclient\vdclient.exe (see example on page 10).

The following command lines can be specified:

- -s\\<Servername>\ndde\$ indicates which PC is acting as the DDE server. The name that is defined for the server is the name that has been specified in the Windows network configuration.
- -b<BackgroundId> this option can be used to specify the colour of the background (the possible colours are given below). The default background colour is blue.

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- -f<ForegroundId> this option can be used to specify the colour of the 'permanent text' (the possible colours are given below). The default foreground colour is yellow.
- -r<ResultId> this option is used to specify the colour of the 'variable text' (the possible colours are given below). The default text colour is white.
- -p<Picture> this option can be used to specify a bitmap that can be used for the background. The full directory path must be specified. As default, there is no background bitmap shown.

If you wish to change the default colours for the BackgroundId, ForegroundId and ResultId, the following colours are available:

B	Black
W	White
G	Green
Y	Yellow
L	Blue
R	Red
A	Grey

The following examples are given:

c:\vdclient\vdclient.exe -bw (background white)

c:\vdclient\vdclient.exe -bw -fy -rg (background white, foreground yellow, result green)

c:\vdclient\vdclient.exe -bw -fy -rg -s\\serverpc\ndde\$ (same as above, only with servername)

Here, b stands for background, w stands for white, f stands for foreground and g stands for green.



NOTE: If the application was installed in a different directory from c:\vdclient, the command line should be altered accordingly.



NOTE: Changing the default colours and specifying a bitmap can also be carried out during installation. For more information, please refer to page 5.

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DISPLAY CHARACTERISTICS

Introduction

The VD Client application provides the means to show conference-related information on video displays located in the conference venue. This information can consist of text, numbers and graphical elements such as bar charts. The data for information displayed is generated by other DCN modules, and it is not possible to alter this information in VD Client. VD Client accepts four different types of display information:

- Microphone Information display
- Message display
- Voting Results display
- Attendance Registration display

To cater for this, the application has three separate screens:

1. Microphone Management and Attendance Registration information.
2. Message Distribution and Attendance Registration information.
3. Multi Voting information.

Priorities

There is a priority system which determines which screen is shown. This is as follows:

- The Microphone Management screen appears when VD Client is started up.
- If information is received from the Message Distribution software module, VD Client checks to see whether it contains a message or not. If it contains a message, then the Message Distribution screen is shown and the Microphone Management screen disappears.
- The Multi Voting screen will appear when a voting is selected or started in either Multi Voting or Parliamentary Voting. The voting screen shall disappear if:

Parliamentary Voting or Multi Voting is closed
or
Sixty seconds have elapsed after voting has stopped.

For each voting there will be a maximum of five results shown.

These screens are described in the following sections.

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Microphone Management

When information from Microphone Management and Attendance Registration is displayed, the following screen appears:

For Microphone Management, the following are shown:

Joe	Smith	
Peter	Johnson	00:30
John	Doe	00:27
Geert	van Birgelen	
Johan	van Iersel	
Tonny	van Geloof	
Hillary	Clinton	
Hillary	Clinton	
Present	0	Absent 0

Fig. 4 The 'anagement and Attendance Registration' screen

- The first four active microphones represented by a screen line and speech time. Speech time is shown in minutes and seconds (mm:ss).
- The first five microphones on the request-to-speak list represented by a screenline.

For Attendance Registration, the following is shown:

- The total number of present and absent delegates.



NOTE: For the total number of present and absent delegates to be shown, the Attendance Registration application must be running.

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Message Distribution

When information from Message Distribution and Attendance Registration is displayed, the following screen appears:

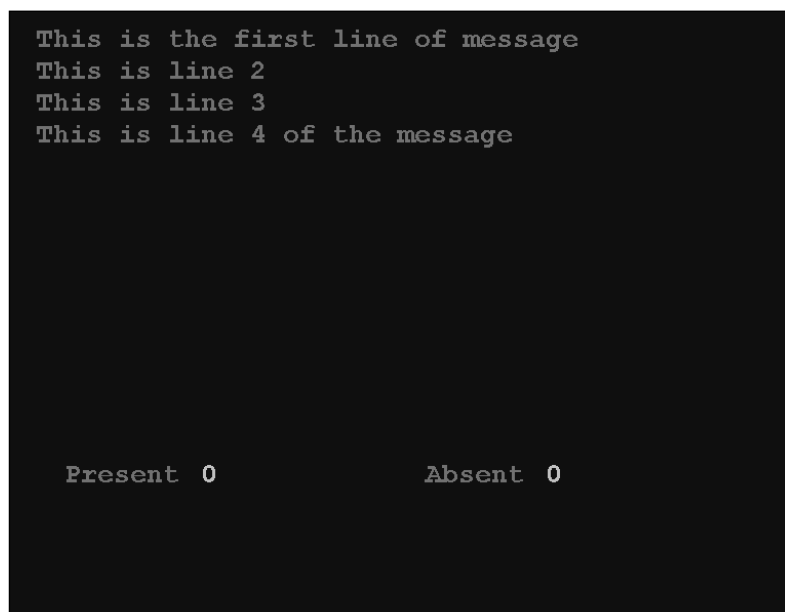


Fig. 5 The 'Message Distribution and Attendance Registration' screen



NOTE: In Message Distribution, the **'Send To Hall Displays'** setting must be selected.

For Message Distribution, the following is shown:

- A message consisting of a maximum of four lines. Each line consists of up to 33 characters. The message text is displayed permanently.

For Attendance Registration, the following is shown:

- The total number of present and absent delegates.

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Voting Results

When information from one of the two voting applications (Multi Voting and Parliamentary Voting) and Attendance Registration is displayed, the screen contents will depend on the display settings in the voting application. Below, there are examples of what is shown under the various display settings.



NOTE: In the voting application, the 'To Hall Display' option in the 'Settings' menu must be selected before information from the voting application can be displayed.

Default results screen - if '2 results' and 'Answers' (from Display Settings) are not selected, the following shall be shown:

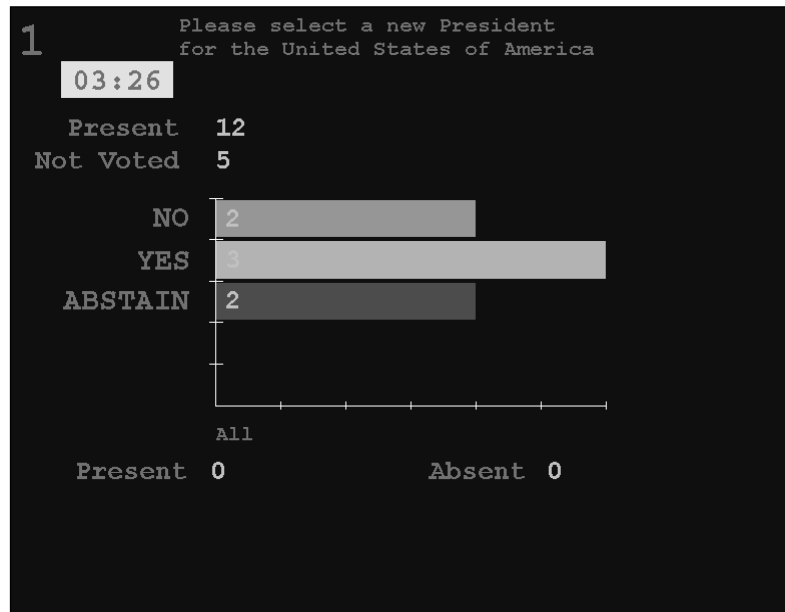


Fig. 6 The 'Voting Results and Attendance Registration' screen

For voting applications, the following is shown:

- The answer options in a horizontal bar chart.

For Attendance Registration, the following is shown:

- The total number of present and absent delegates.

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Answer screen - if '2 results' is off and 'Answers' is on in the voting application, the following screen appears:

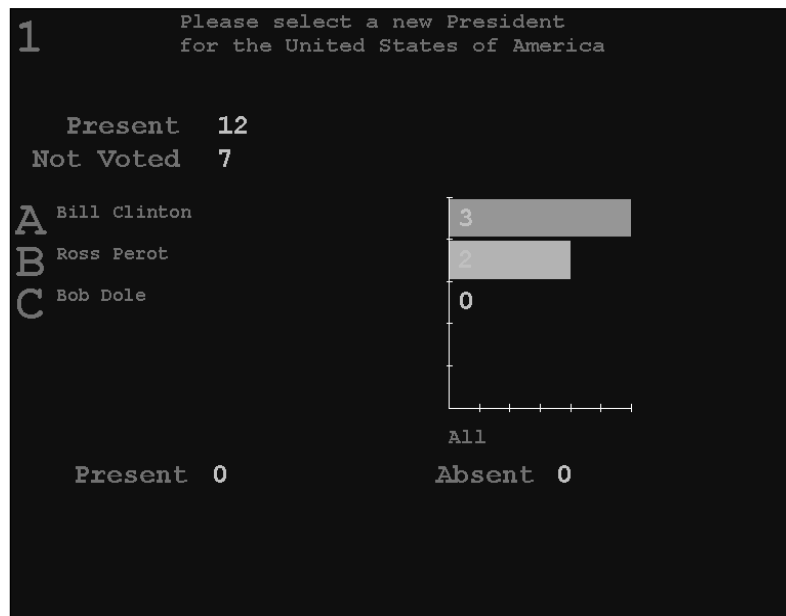


Fig. 7 The 'Answers' screen

The number voted shall be shown in a horizontal bar chart. The numbers for the answer texts are fixed legends.

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Results screen - if '2 results' is on and 'Answers' is off in the voting application, the following screen appears:

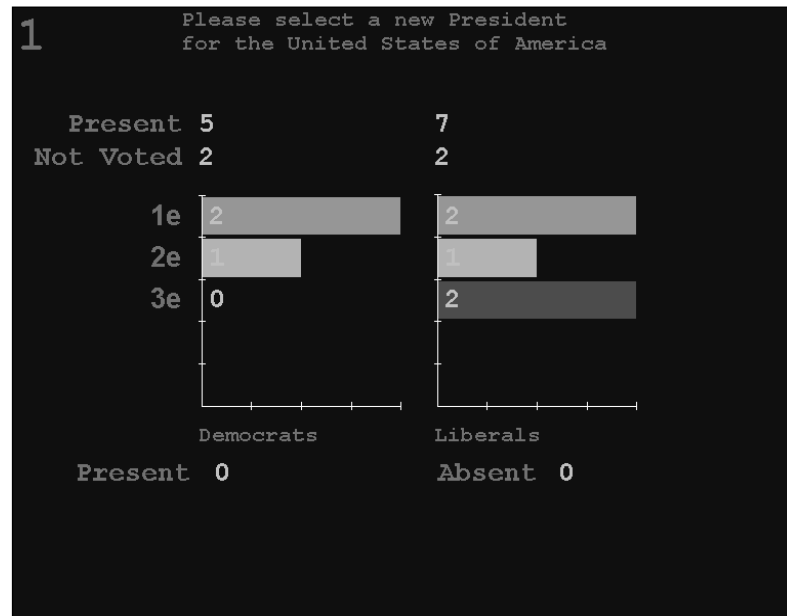


Fig. 8 The '2 results' screen

The number of votes for both votings will be shown in a horizontal bar chart.

Six items are supported for the Voting Results screen when Attendance Registration is also running (five otherwise). These are:

- Current voting number. The maximum length is five characters.
- Description of the current voting consisting of a maximum of four lines.
- Answer text.
- Results shown in results window(s). This consists of seven components (number, group name, present legend, present, not voted legend, not voted and answers). The maximum length is 458 characters. Answers can be further subdivided into answers legend and number voted. Results window 1 is activated by selecting or starting a voting. If the state of the voting is STOP, then the topic will be cleared after 60 seconds by the DDE server application.
- The amount of voting time left displayed in minutes and seconds (mm:ss). The maximum length is nine characters.

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- The total number of present and absent delegates (when Attendance Registration is also running).



NOTE: No voting items will be sent if the menu item **'To Hall Display'** is not selected (unchecked) in a voting application. For more information, please refer to the *Voting user manual*.

For all three screens, the following applies:

permanent texts - number, subject, present legend, not voted legend, group name, answer legend, answer text, present text and absent text (when Attendance Registration is also running).

variable texts - clock, number present, number not voted, number voted, number present and number absent (when Attendance Registration is also running).

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