

Application software

Introduction

Bosch offers a comprehensive range of software modules for DCN Next Generation systems. These modules run on a system-connected PC in Microsoft Windows, and integrate conference preparation, management and control into this versatile graphic computer environment. Any combination of modules can be activated according to specific system requirements. This software is generally used in larger-scale systems where operator control is required.

PC control software has been added to the software portfolio. This software has a stylish and ergonomic design and is based on the latest trends in software and operation systems. The new PC control software can be extended with various modules, which can be activated at any time.

The choice between new and classic software modules depends on specific system requirements. Additional modules can easily be activated if required, for instance when new hardware is added or the conference changes from unilingual to multilingual.

Software modules

	PC Control Software	Classic Software
Microphone Management	•	•
Synoptic Control	•	•
System Installation	•	•
Parliamentary Voting		•
Multi Voting	•	•
Delegate Database		•
Simultaneous Interpretation		•
Text/Status Display		•
Attendance Registration		•
ID Card Encoding		•
Message Distribution		•
Intercom		•
Video Display		•
Camera Control		•

Activating software

DCN Next Generation software (both new and classic) is protected with a license key. The license key depends on the CCU and the set of software modules. This means that an individual license key is required per CCU.

Available languages

	New PC Control Software	Concentus Display	Classic Software
Catalan		•	•
Chinese (simplified)		•	•
Chinese (traditional)		•	•
Czech		•	•
Dutch	•	•	•
English	•	•	•
Finnish		•	•
French	•	•	•
German	•	•	•
Italian	•	•	•
Japanese		•	•
Latvian		•	
Lithuanian		•	
Polish		•	
Portuguese		•	
Russian		•	•
Slovak		•	
Slovenian		•	•
Spanish	•	•	•
Swedish		•	•

DCN-SW PC Control Software



DCN-SW software is the main module and is used as a platform on which all other modules run.

Features and Benefits

- Setting master volume levels
- Opening, closing and deleting Installation File and Names File
- Automatically loads all modules which were activated after previous shutdown
- Accessing, acknowledging and printing error messages
- Single-point control of system installation
- Facilities for assigning functions to audio channels
- In-conference warning message when installation configuration changes

Functions

When the software is loaded, it presents the user with the opening screen.

The other modules are represented by icons in a toolbar, and can be activated simply by clicking. The software automatically loads modules, which were active after a previous shutdown. This saves having to manually select modules.

Ordering information

DCN-SW PC Control Software

DCN-SWSI System Installation



The System Installation software is a powerful and effective module for installers and system operators installing and setting up the system. System installation, set-up and functions are brought under PC control in easy-to-use, Windows-based software.

Features and Benefits

- Single-point control of system installation
- Facilities for assigning functions to audio channels
- In-conference warning message when installation configuration changes

Functions

The System Installation software provides enables specification of the number of audio channels dedicated to interpretation and intercom facilities in an easy yet methodical way.

Assigning seat numbers

The initial task in any installation is to assign seat numbers to delegate contribution units.

The System Installation software simplifies this task with a choice of two assignment methods:

1. The PC automatically allocates a number to the delegate contribution units.
2. The operator selects a random microphone and allocates a number. The next assigned number will follow on sequentially. The software instantly recognizes when a new unit is installed by offering a seat number for the newly installed unit.

Audio channel assignment

The DCN system offers a total of 32 audio output channels, with a default configuration of 26 distribution, 4 contribution and 1 intercom link (2 channels). If required, all 31 channels may be used for interpretation.

All channel assignments are inter-dependent. The number of channels assigned to floor and intercom is dependent on the number required for simultaneous interpretation. In large international conferences using 31 interpretation channels plus one floor channel, a channel is automatically assigned to interpreter use. In such a case, the system performs as an interpretation system.

Audio Test

Audio test consists of two different tests. In the channel test, a test tone can be activated on any channel. In this way, all outputs can be checked. The microphone test is a test, which automatically tests all delegate microphone units and interpreter desks. After the test, a list is available with the state of all contribution units.

System Installation is primarily a preparation module. Once all microphones and delegate units have been assigned seat numbers and the audio channels configured and tested, there is no need to use System Installation for day-to-day monitoring or controlling of a conference. However, if there are physical layout changes in the conference hall (delegate units are added, for example) then the data in System Installation must be updated. In this case, a warning message immediately appears in the installation window.

The conference-related information generated is stored in an installation file. The user can open, create, delete and save these files under a new name.

Ordering information

DCN-SWSI System Installation

DCN-SWMM Microphone Management



The efficient management of delegate microphone status is vital for successful conference control. The Microphone Management module provides the user with a powerful and easy-to-use tool that brings all aspects of microphone management to a single point of control.

Features and Benefits

- Single-point control of all microphone units
- Various microphone control options
- Extensive range of options for microphone-related parameters
- Output to printer and/or external equipment such as cameras

Functions

Microphones are controlled using the name (or device number) of the delegate. The user can select microphones for the speakers list (active microphones) or prepare a request list. The order of delegates within the request list and speakers list can be altered at any time before or during a conference. A search facility is available that allows the operator to locate specific delegates.

It is also possible to give notebook status to delegates, which means they do not have to join the request list and enjoy specific privileges not granted to other delegates.

The microphone type must be specified for the notebook. The possibilities are:

- 'Button' where delegates activate their microphones by pressing their microphone buttons. (In this mode, the 'VIP' LED of the contribution units is illuminated.)
- 'Operator' where the microphones of active delegates are activated by the operator
- 'Voice' where the microphones of the delegates are voice-controlled

The DCN Next Generation system automatically recognizes an assigned chairman unit and will automatically add it to the notebook.

Microphone Management offers a number of microphone control options. This has a bearing on both how the Microphone Management module operates and how the conference itself proceeds. These options are:

- Control by operator with request-to-speak list (manual)
- Control by operator with request-to-speak list and response list
- Control by delegate with request-to-speak list (open)
- Control by delegate with override of other delegate microphones (first-in-first-out)
- Control by delegate with voice activation

Each mode allows a different level of both operator and delegate control, so almost all situations can be covered. For example, smaller, informal discussions require very little operator control, so a mode such as control by delegate would be ideal. For a full-scale international conference with hundreds of participants, control by operator with request-to-speak list is more appropriate. The operator can specify whether one, two, three or four normal delegate microphones can be active simultaneously.

It is also possible to specify whether delegates are allowed to cancel requests to speak or switch their microphones off. The amount of time delegates are allowed to speak can also be specified.

A number of options are available for presentation of conference information. The contents of the main window can be altered, and the manner in which each delegate is represented in any of the lists is also user-definable. Delegates' microphone activity can be recorded on file or sent to a printer.

During a conference, the main window is used for monitoring and controlling delegate microphone status. Depending on the operating mode, delegate microphones can be switched on or off by simply clicking on the screen microphone icon, or double-clicking on a delegate's name. A single click on a delegate name allows the operator to either insert, delete or replace the delegate from the request-to-speak list.

DCN-SWSC Synoptic Control



This software module moves away from the traditional method of control panels and buttons and replaces it with an extremely user-friendly, on-screen means of managing microphone status. A graphic representation of the contribution units in a conference venue is created and then used to control the microphone status of delegates. Through the use of different icons and colors, the user has an overview at a glance of the status of all conference participants. The result is a highly visual 'push-button' conference control facility.

Features and Benefits

- Easily-created synoptic layout used for control
- Single-point control of all microphone units
- Various microphone control options
- Output to printer and/or external equipment such as cameras

Functions

There are two modes of operation within Synoptic Control; layout mode and control mode.

Layout mode

In layout mode, the user creates a graphic representation of the contribution units present in the conference venue. The synoptic layout is a plan view of the conference venue. Layout mode contains dedicated tools for this creating this. Icons representing the contribution equipment are used to build up the layout. Each item of contribution equipment (delegate unit, chairman unit, podium or lavalier microphone etc.) has its own icon. Viewing options that reduce the size of the icons make it easier to work with larger layouts. An optional on-screen grid helps with alignment and a snap facility lines up icons with the grid

Ordering information

DCN-SWMM Microphone Management

lines. Seat numbers can be automatically assigned to each layout element. The synoptic layout can be simply and quickly changed. Contribution units can be moved by dragging them with the cursor. Standard Windows functions such as cutting and pasting can be used to move, remove or add elements to the layout.

Control mode

While layout mode is used to create a synoptic floor plan (for preparation purposes), the control mode is used to monitor and control a conference. The synoptic layout generated in layout mode becomes a control panel in control mode. The icons in the layout become functional, and are used as status indicators or buttons to initiate actions for the contribution unit the icon represents. The color of a particular icon is related to the state (request-to-speak, active, etc.) of the actual microphone it represents. Icons cannot be moved in control mode, but a layout can always be edited by returning to layout mode. The state of a delegate microphone can be altered by clicking on the appropriate icon.

Synoptic Control offers the following microphone control mode options:

- Control by operator with request-to-speak list (manual)
- Control by delegate with request-to-speak list (open)
- Control by delegate with override of other delegate microphones (first-in-first-out)

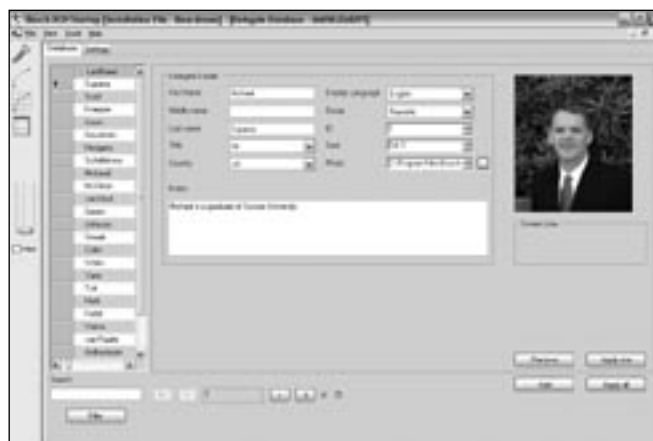
The synoptic layout is stored in a layout file. There are a number of options available to the user for working with these files, all of which are standard Windows file options. These consist of opening, creating and saving files under a new name. Delegate microphone activity can be recorded in a file or sent to a printer.

Microphone activity data is also made available for controlling external equipment such as an automatic camera system.

Ordering information

DCN-SWSC Synoptic Control

DCN-SWDB Delegate Database



The Delegate Database software allows users to compile a comprehensive database of information relating to participants at a conference or meeting.

Features and Benefits

- Comprehensive database creation for all delegates
- Facility for configuring 'screen line'
- Dedicated fields for ease of use

Functions

The data for each delegate is stored in records, which contain delegate data in dedicated fields. All records are stored in a names file. There are a number of options available for working with these files, all of which are standard Windows file options. These consist of opening, creating, deleting and saving files under a new name. All information is entered via a PC, before or during conference proceedings. A considerable amount of data can be specified for each conference participant. All delegate data is input via the main window. For some entries (first name, last name) the only restriction is the number of characters entered. For other entries (country, group etc.) the input can easily be selected from a list. Certain fields within the record can be identified in order to be associated (as a screen line) with other software modules such as Microphone Management.

Ordering information

DCN-SWDB Delegate Database

Classic software**LBB 4190/00 Startup**

The Startup screen is active whenever DCN Next Generation software modules are used for controlling and monitoring. This module is different from other DCN Next Generation software modules as it is primarily used as a platform from which the other modules are selected. However, this is only one aspect of Startup. The following can also be carried out:

Features and Benefits

- Setting master volume levels
- Opening, closing and deleting Installation File
- Configuring the Startup program to automatically load selected DCN Next Generation modules
- Accessing, acknowledging and printing error messages
- On-screen help facility

Functions

When Startup is loaded, it presents the user with a desktop window that is the DCN Next Generation opening screen. The other DCN Next Generation modules are represented by icons in this opening screen, and activated simply by clicking on them. Startup also has a facility, which allows other DCN Next Generation modules to be loaded automatically. This saves having to manually select modules that are used virtually every time the DCN Next Generation system is in operation. The user can specify any combination of modules for automatic Startup.

Ordering information

LBB 4190/00 Startup

LBB 4170/00 Microphone Management

The efficient management of delegate microphone status is a vital element in successful conference control. The Microphone Management software module provides the user with a powerful and easy-to-use tool that brings all aspects of microphone management to a single point of control.

Features and Benefits

- Single-point control of all microphone units
- Various microphone control options
- Extensive range of options for microphone related parameters
- Output to printer and/or external equipment such as cameras
- On-screen help facility

Functions

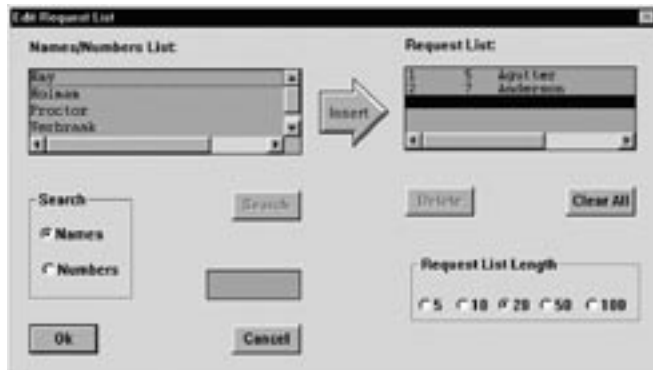
Microphones are controlled using the name (or desk number) of the delegate. The user can select microphones for the speakers list (active microphones) or prepare a request list. The order of delegates within the request list and speakers list can be altered at any time before or during a conference. A search facility is available that allows the operator to locate specific delegates. It is also possible to give notebook status to delegates, which means they do not have to join the request list and can enjoy certain other privileges not granted to other delegates. The microphone type must be specified for the notebook. The possibilities are:

- 'Chair' for chairman microphones
- 'Key' where delegates activate their microphones by pressing their microphone buttons. (in this mode the 'VIP'LED of the contribution units is illuminated)
- 'Operator' where the microphones of more active delegates are activated by the operator

The DCN Next Generation system automatically recognizes an assigned chairman unit and will automatically add it to the notebook.

Microphone Management offers a number of microphone control options. This has a bearing on both how the Microphone Management module operates and how the conference itself proceeds. These options are:

- Control by operator with request-to-speak list (manual)
- Control by operator with request-to-speak list and response list
- Control by delegate with request-to-speak list (open)
- Control by delegate with override of other delegate microphones (first-in-first-out)
- Control by delegate with voice activation



Each mode allows a different level of both operator and delegate control, so almost all situations can be covered. For example, smaller, informal discussions require very little operator control, so a mode such as control by delegate would be ideal. For a full-scale international conference with hundreds of participants, control by operator with request-to-speak list would be more appropriate. The operator can specify whether one, two, three or four normal delegate microphones can be active simultaneously. It is also possible to specify whether delegates are allowed to cancel requests to speak or switch their microphones off. The amount of time delegates are allowed to speak can also be specified.



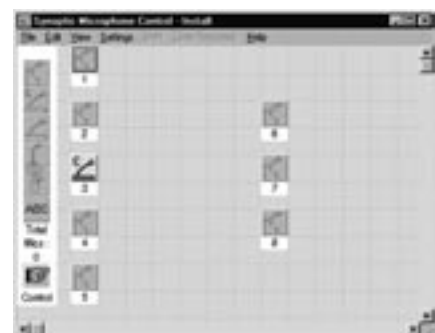
A number of options are available as to how the conference information is presented. The contents of the main window can be altered, and how each delegate is represented in any of the lists is also user-definable. There is a facility to automatically test and scan all installed microphones individually, with or without a sound generator. The microphone under test is indicated on-screen and the results of the test are made known to the system operator. This program can also be used in combination with the Text/ Status Display module, LBB 4183/00, to show delegate names or seat numbers on a hall display as soon as they are present on the speakers list or request-to-speak list. Delegates' microphone activity can be recorded on file or sent to a printer. Microphone activity data is also made available for controlling external equipment such as an automatic camera system.

During a conference, the main window is used for monitoring and controlling delegate microphone status. Depending on the operating mode, delegate microphones can be switched on or off by simply clicking on the screen microphone icon, or double-clicking on a delegates name. A single click on a delegate name allows the operator to either insert, delete or replace the delegate from the request-to speak list.

Ordering information

LBB 4170/00 Microphone Management

LBB 4171/00 Synoptic Microphone Control



This software module takes microphone control away from the traditional method of control panels and keys and replaces it with an extremely user-friendly, on-screen means of managing microphone status. A graphical representation of the contribution units in a conference venue is created and then used to control the microphone status of delegates. Through the use of different icons and colors, the user has an at-a-glance overview of the status of all conference participants. The result is a highly

visual 'push-button' conference control facility. There are two modes of operation within Synoptic Microphone Control; layout mode and control mode.

Features and Benefits

- Easily-created synoptic layout used for microphone control
- Single-point control of all microphone units
- Various microphone control options
- Output to printer and/or external equipment such as cameras
- On-screen help facility

Functions

Layout mode

In layout mode, the user creates a graphical representation of the contribution units present in the conference venue. This synoptic layout is a plan view of the conference venue. Layout mode contains dedicated tools for this purpose. Icons representing the contribution equipment are used to build up the layout. Each item of contribution equipment (delegate unit, chairman unit, podium or lavaliere microphone, etc.) has its own icon. Viewing options that reduce the size of the icons make it easier to work with larger layouts. An optional on-screen grid helps with alignment and a snap facility lines up icons with the grid lines. Seat numbers can be automatically assigned to each layout element. The synoptic layout can be changed simply and quickly. Contribution units can be moved by dragging them using the cursor. Standard Windows functions such as cutting and pasting can be used to move, remove or add elements to the layout.

Control mode

While layout mode is used to create a synoptic floor plan of the conference venue (for preparation purposes), control mode is used to monitor and control a conference. The synoptic layout generated in layout mode becomes a control panel in control mode. The icons in the layout become functional, and are used as status indicators or buttons to initiate actions for the contribution unit the icon represents. The color of a particular icon is related to the state (request-to-speak, active, etc.) of the actual microphone it represents. Icons cannot be moved in control mode, but a layout can be edited by returning to layout mode. The state of a delegate microphone can be altered by clicking on the appropriate icon.

Synoptic Microphone Control offers the following microphone control mode options:

- Control by operator with request-to-speak list (manual)
- Control by delegate with request-to-speak list (open)
- Control by delegate with override of other delegate microphones (first-in-first-out)



The synoptic layout is stored in a layout file. There are a number of options available to the user for working with these files, all of which are standard DCN Next Generation file options. These consist of opening, creating and saving files under a new name. Delegate microphone activity can be recorded on file or sent to a printer. Microphone activity data is also made available for controlling external equipment such as an automatic camera system. Synoptic Microphone Control has a facility to automatically test and scan all installed microphones individually, with or without a sound generator. The microphone under test is indicated on-screen and the results of the test are made known to the system operator.

Ordering information

LBB 4171/00 Synoptic Microphone Control

LBB 4172/00 Simultaneous Interpretation



Simultaneous interpretation is essential for international congress venues. The Simultaneous Interpretation program supports the preparation of simultaneous interpretation facilities and the monitoring of interpreter activities during a conference. It accommodates 31 interpreter booths, each with up to 6 interpreter desks.

Features and Benefits

- Can accommodate 186 interpreter desks
- Online monitoring of interpretation activities
- Facilitates normal and relay interpretations
- Microphone mode options
- Specifying a language for each of the system interpretation channels
- Determining the microphone interlock mode
- Online monitoring of interpreter activities during a conference
- On-screen help facility

Functions

The main window has two display modes, both with graphics for easy management of information. One gives a channel-oriented overview of system status, such as which language is present on that channel, the mnemonic for that language, on which language the interpretation is based, and the number of the desk and booth generating that language. The other display mode gives the same information in a different form, providing an overview of the status of each desk in each booth. This includes booth and desk status (active or non-active), and the language in and out of each active desk. In addition, the software enables the operator to establish microphone interlocks, between booths and within booths, with or

without using an override facility. In interlock mode, the active microphone must first be turned off before any other microphones can become active. In override mode, any microphone can automatically override the current active microphone and become active. The interpreter system settings are stored in an interpreter configuration file. There are a number of options available to the user for working with these files, all of which are standard DCN NG file options. These consist of opening, creating and saving files under a new name. A print function enables a hard copy printout of desk and channel language assignment— ideal for use as a reference to current system settings.

Ordering information

LBB 4172/00 Simultaneous Interpretation

LBB 4173/00 Intercom



The Intercom software module forms the basis of a communication system that allows conference participants to hold two-way private conversations. It provides a means of setting up and controlling intercom calls between delegates, chairmen, interpreters and other PC-users during a conference.

It allows several types of calls to be made:

- Participant to / from operator
- Between participants
- Interpreter to/from operator
- Between interpreters
- Participant to/from interpreter
- Between PC operators in a multi-PC system

Features and Benefits

- Enables private, two-way conversations between delegates, chairmen, interpreters and other PC users
- Search facility to locate delegates
- Allows up to 23 simultaneous conversations
- Simple menus for ease of control
- On-screen help facility

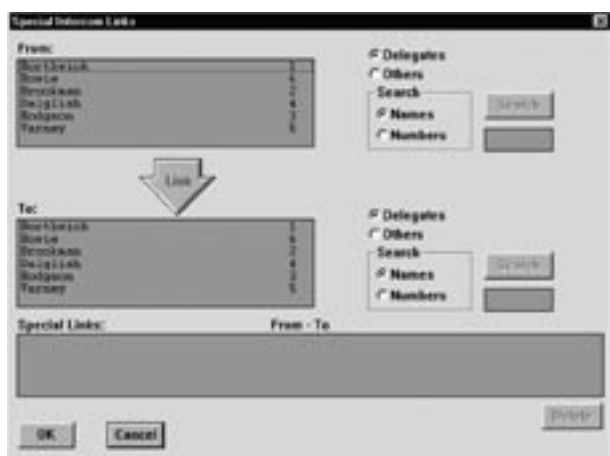
Functions

The Intercom software is used in combination with the Intercom Handset and Cradle. It provides assistance in both the pre-conference creation of an intercom network, and the routing and controlling of intercom calls once the conference is underway. Preparation work includes assigning special intercom links between participants, interpreters or both. Once the conference is taking place, the operator can establish and re-route intercom calls via simple on-screen windows. Each intercom link uses a system channel. The maximum number of intercom links is 5. If no intercom links are assigned, the intercom stop module will not start.

Note: The number of DCN Next Generation audio channels available for intercom purposes is set using the System Installation software LBB 4185/00.

Note: Delegate Database LBB 4180/00 is required if delegate names are used.

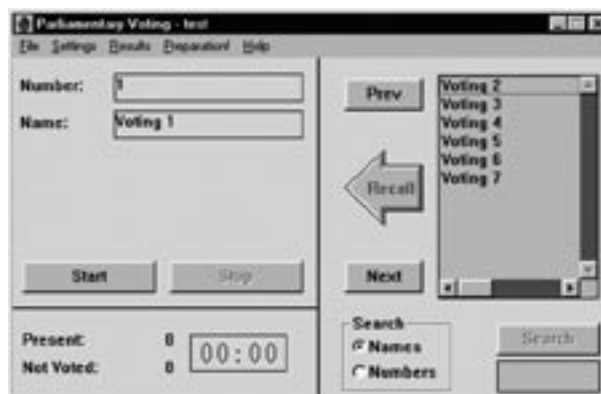
Note: Simultaneous interpretation LBB 4172/00 is required if interpreter names are used.



Ordering information

LBB 4173/00 Intercom

LBB 4175/00 Parliamentary Voting



The Parliamentary Voting module is a DCN Next Generation software module designed for controlling and monitoring conferences and discussions using the DCN Next Generation contribution equipment. The module allows an operator to implement and manage voting at a conference.

Features and Benefits

- Allows complete operator control of parliamentary voting sessions
- Extensive motion preparation facilities
- Can output voting results to disk, hall displays or printers
- Wide range of vote-related parameter options
- On-screen help facility

Functions

The program covers a number of functions including vote preparation, specifying vote-related parameters, and starting and controlling voting. The module has two main windows; the Preparation window and the Control window. The preparatory and parameter definition work is mainly carried out from the Preparation window, and the starting and controlling of voting is carried out from the Control window.

The files created using this module are called script files as they act as the script for voting procedures. The file menu allows script files to be opened, created, deleted, saved, saved under a different name, imported and printed out.

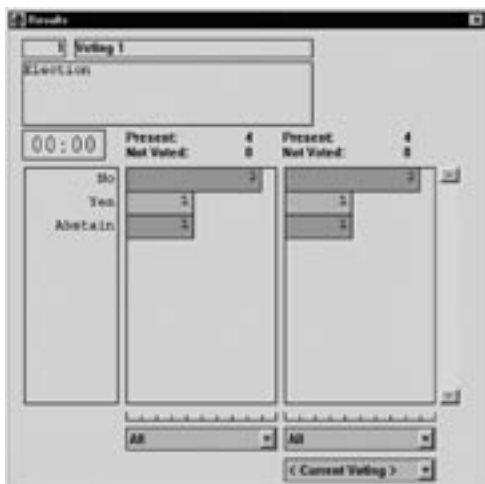
A script file consists of a number of proposals or motions (between 1 and 999), each of which will be voted on.

New ones can be created and existing ones edited within script files. Items to be edited are selected from a list in the currently open script file and displayed on-screen. All parameters related to this can be altered, although certain

parameters have to satisfy system-specified criteria. Once an item has been edited it is inserted back into the list. Every item must have a unique number, which is used by the DCN Next Generation system as a reference. The name and description of each defines it for both users and delegates. It is also possible to enable a quorum function. This specifies how many authorized delegates must be present before voting can legitimately take place. A majority function determines what percentage of votes constitutes a majority voting. Once a vote is ready to be taken, it is recalled in the Control window and the voting process is started. When the program enters the active voting state, delegates can use their delegate units to register votes. The user has full control over the voting procedure, and can stop or suspend a vote at any time. Motions that have already been voted on cannot be edited, but voting again on the same motion is possible. It is also possible to vote without opening a script file.

The program offers the possibility of displaying incoming votes or the final result of a vote on hall displays connected to the DCN Next Generation system, on delegate units with a display facility, and on-screen. It is possible to print out a hard copy of a vote with its results. There is also a facility that automatically prints out the results of a vote once voting is completed.

Note: Delegate Database LBB 4180/00 is required if delegate names are used.



Ordering information

LBB 4175/00 Parliamentary Voting

LBB 4176/00 Multi Voting



This software module provides the means to select and control six different kinds of conference voting, including Parliamentary Voting. The voting types that can be implemented or selected are:

- Parliamentary
- Opinion Poll
- Audience Response
- Rating
- Multiple Choice
- For/Against

In each case, the program allows the user to prepare for voting, specify vote-related parameters, display and print voting results and start and control voting.

Features and Benefits

- Allows selection between six different kinds of voting
- Extensive voting preparation facilities
- Wide range of vote-related parameter options
- Choice of three voting results display types
- On-screen help facility

Functions

There are two main windows: the Preparation window and the Control window. The Preparation window is where voting motions are created and parameters are defined or changed. The Control window is used for starting and controlling voting. There is also a Results window for displaying voting results. These can be displayed in bar-, pie- or thermometer charts. It is also possible to see voting results while the voting is still taking place. These 'interim results' can be specified in the Preparation window. It is also possible to enable a quorum function. This specifies how many authorized delegates must be present before a voting can legitimately take place. A majority function determines what percentage of votes constitutes a majority voting. The files created are called script files as they act as the script for voting procedures. A file menu allows script files to be opened, created, saved, deleted and printed. There is also a facility for importing script files

that have been created and saved in another application. Each script file can consist of a number of voting motions (up to 9,999), each of which can be selected from a 'voting motions list' in the Preparation window. Once selected, a voting can be edited and then inserted back into the voting list. All parameters related to the voting can be altered although certain parameters have to satisfy system-specific criteria. A search facility is provided to help locate specific voting motions. Vote-related parameters can be specified for each individual voting.

These are:

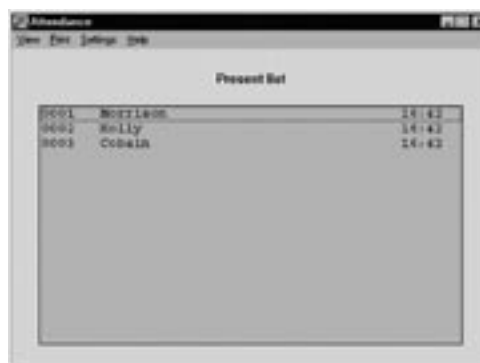
- Vote type (open or closed, majority or non-majority, timed or non-timed)
- Time related options
- Results display style
- Interim results display
- Screen and print legends
- Hall display, vote weighting, roll call, voting LEDs and abstain options

Once a motion is ready to be voted on, delegates can register votes on their delegate units. Multi Voting incorporates a roll call function which, when activated, means that delegates must vote in a predetermined order that is specified in the Delegate Database Module (LBB 4180/00). Otherwise, delegates can vote in any order at the same time. Voting without a script is also possible, and the same functions are available as with a script. Voting can be stopped or suspended at any time, and incoming votes or the final result of a vote can be displayed on hall displays connected to the DCN Next Generation system, on delegate units with a display facility and on-screen. The user can print the final result of a vote, and it can also be automatically exported to a file.

Note: Delegate Database LBB 4180/00 is required if delegate names are used.



LBB 4178/00 Attendance Registration



Features and Benefits

- Registration using chip card with or without PIN-code, or present key
- Access control facilities
- All data instantly available to operator
- Print facility to reproduce data in several formats
- On-screen help facility

Functions

The functionality of Attendance Registration falls in to two categories:

Registration:

It is possible to specify entrance requirements that conference participants have to meet before entering the conference room. This normally means participants have to insert a chip card in a chip card reader, either at the entrance to the conference venue or at the contribution unit. Registration at a contribution unit can also be by means of pressing the 'Present' key. It is possible to display lists on-screen of all 'present' and 'absent' participants, and print hard copies of these lists. There is also a window that can be permanently displayed on-screen that gives an overview of all participants who have registered their presence or absence.

Ordering information

LBB 4176/00 Multi Voting

Access:

The settings specified for registration can also be used for access. This means that although participants can enter the conference venue, they cannot use any of the contribution unit facilities (such as microphone, voting, intercom) without first satisfying access requirements. Access is also controlled by means of chip cards, with or without PIN code. There is also an option whereby participants register their presence at the entrance using a chip card reader, and a specific contribution unit is then made available for them. You can also control where participants sit by specifying whether they can occupy any seat or a particular, pre-defined one.

**Ordering information**

LBB 4178/00 Attendance Registration

LBB 4180/00 Delegate Database

The Delegate Database software allows users to compile a comprehensive database of information relating to participants at a conference or meeting. The delegate information is classed as either 'conference-related' or 'personal'.

- Conference-related deals with parameters like interpretation language, vote weight and authorization. This data is used by the DCN Next Generation for conference controlling
- Personal information deals with data such as home address and telephone number, date of birth and fax number. This data is for reference only

Features and Benefits

- Comprehensive database creation for all delegates
- Facility for configuring 'screen line' and 'card label'
- Facility for printing labels and chip card production
- Dedicated fields for ease-of-use
- On-screen help facility

Functions

The data for each delegate is stored in a 'screen card', which contains delegate data in dedicated fields. Screen cards are stored collectively in a names file. There are a number of options available to the user for working with these files, all of which are standard DCN Next Generation file options. These consist of opening, creating, deleting and saving files under a new name. All information is entered via a PC, before or during conference proceedings. A considerable amount of data can be specified for each conference participant. Many parameters are not general but delegate specific, including:

- PIN Code
- Card Code for chip card
- Delegate group
- Delegate country

- Delegate name
- Delegate vote weight
- Delegate seat number
- Language of delegate screen display (French, German, Italian, Dutch, English, Portuguese, Japanese or Spanish)
- Simultaneous interpretation language

If the Chip Card Encoder (LBB 4157/00) and printer are connected to the DCN Next Generation system, chip cards can be encoded by using the ID Card Encoder module (LBB 4181/00) and the labels for the chip cards printed. It is also possible to grant or deny authorization to individual delegates for the following:

- Microphone
- Voting
- Intercom

This is possible when they use an ID card to register, and is carried out using the Attendance Registration and Access Control module (LBB 4178/00). All delegate data is input via the main window. For some entries (first name, last name) the only restriction is the number of characters entered. For other entries (country, group, etc.), the input can easily be selected from a list of options that is presented by the system when the user activates that particular field. This options list can be edited and expanded by the user. In the personal data section, the user can input such delegate data as date-of-birth, address, telephone number, fax and E-mail number. Certain fields within the screen card can be identified in order to print on an ID card label, or associated (as a screen line) with other software packages such as Microphone Management and Attendance Registration and Access Control.

The screenshot shows the 'Delegate Database' software interface. It features a 'Previous Name' tab and a 'New Name' tab. The 'Conference Data' section includes fields for Last Name (Bortolucci), First Name (David), Title (None), Country (None), Seat Number (3), Interpretation (None), User Display (Dutch), Group (group 1), and Vote Weight (1). There are also checkboxes for 'Voting' and 'Intercom'. The 'Personal Data' section is partially visible. An 'ID Card Label' preview shows the delegate's name and group information. A 'Print Card' button is located at the bottom right.

Ordering information

LBB 4180/00 Delegate Database

LBB 4181/00 ID card Encoder

Encoder software is used in combination with the Delegate Database software (LBB 4180/00) as a software driver for producing ID cards. These ID Cards are used to identify delegates during a conference and contain information specified using Delegate Database. An encoding unit (LBB 4157/00) is also required to produce the ID cards.

Ordering information

LBB 4181/00 ID card Encoder

LBB 4182/00 Message Distribution

The screenshot shows the 'Message Distribution' software interface. It includes a 'Message Name' field (Lunch 13-00h) and a 'Message Text' area containing an invitation: 'All Delegates are invited to have lunch in the Stallen restaurant on the first floor at 13.00h'. There are 'Send' and 'Recall' buttons. A 'Send To' section has buttons for 'Delegates...', 'Arguments', 'Group', and 'Hall Display'. A 'Library' table lists messages with columns for 'Call', 'Priority', 'Recall', and 'Hall'. The table contains three entries: 'Would the order', 'Will all deleg', and 'Welcome to all'. A 'Delete' button is at the bottom right.

The Message Distribution software allows the operator to originate messages that can be sent via the DCN Next Generation to individual delegates, groups of delegates and other participants to view on their units. Messages can also be sent to hall displays for general viewing by the public and delegates. Messages created can be stored in a library for later use. There is a facility that automatically removes messages after they have been displayed for a pre-specified period of time. The Message Distribution software can be used in combination with the Video Display software (LBB 4184/00) and the Text/Status Display software (LBB 4183/00).

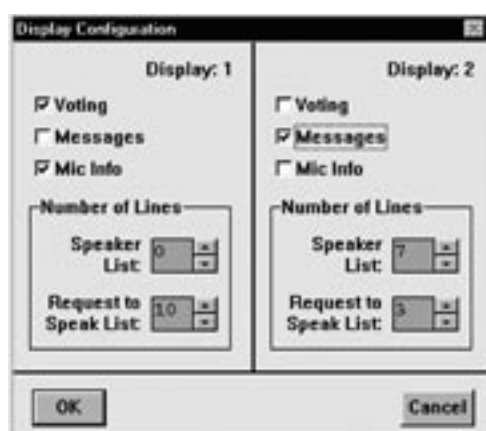
Note: Message text is only available on delegate units with display.

Features and Benefits

- Message distribution to personal or hall displays
- Easy message generation procedure
- Archiving facility allows messages to be retrieved and re-used
- Automatic message removal option
- On-screen help facility

Ordering information

LBB 4182/00 Message Distribution

LBB 4183/00 Text/Status Display

The Text/Status Display module provides a means of displaying conference-related information on character displays in the conference venue. Almost all displayed information is generated by other DCN Next Generation modules. The text that appears on screen to accompany voting results can be generated using Text/ Status Display. It is also possible to specify the display length of the speakers list and the request-to-speak list.

Features and Benefits

- Supports numeric, alphanumeric and geographic displays
- Displays voting, message and microphone information
- Automatic priority system for displays
- Accepts information from other DCN Next Generation software modules
- On-screen help facility

Functions

Text/Status Display accepts three different types of display information:

- Voting Results display. This information is generated using the Parliamentary Voting module (LBB 4175/00) and consists of a voting motion (number, description, time) and the results of the vote on that motion
- Messages display. This information is generated using the Message Distribution (LBB 4182/00) and consists of a conference-related text message
- Microphone Information display. This information is generated either using the Microphone Management module (DCNSWMM) or the Synoptic Microphone Control module (DCNSWSC). It consists of a list of delegates whose microphones are active and those waiting to speak

This software supports three different types of conference venue displays:

- Numeric display. This is typically a dot matrix display of only a few characters per line, and allows only purely numerical information to be displayed
- Alphanumeric display. Also typically a dot matrix display, but for up to 10 lines of 33 characters. Information can be displayed using both text and numbers
- Geographic or status display. This kind of display gives information on the voting status of each conference participant (if the vote is non-secret). A representation of the seating plan and different colored LEDs for vote status are used to achieve this.

Ordering information

LBB 4183/00 Text/Status Display

LBB 4184/00 Video Display

Video Display is unlike all other DCN Next Generation modules in that there is no user action required to operate it. It automatically interfaces the DCN Next Generation software with video displays -.

It 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 information displayed is generated by other DCN Next Generation modules, and it is not possible to alter this information in Video Display.

Features and Benefits

- Interface to monitors, video projectors and Vidiwalls

Functions

To use Video Display, it is necessary to have a Video Display (VD) Client application. The VD Client application receives the information that 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 colors. This can be carried out either during or after installation of Video Display. This VD Client application accepts four different types of display information:

- Voting Results display. A voting motion and the results of the vote on that motion.
- Message display. A conference-related text message (e.g. when and where lunch will be, or when tomorrow's session will begin).
- Microphone Information display. A list of delegates whose microphones are active and those waiting to speak.
- Attendance registration display. Information about how many delegates are absent or present.

Ordering information

LBB 4184/00 Video Display

LBB 4185/00 System Installation

The System Installation software is an effective tool for installers and system operators when installing and setting up the DCN Next Generation system. System installation, set-up and functions are brought entirely under PC control through its easy-to-use, Windows-based software.

Features and Benefits

- Single-point control of system installation
- Facilities for assigning functions to audio channels
- In-conference warning message when installation configuration changes
- On-screen help facility

Functions

The DCN Next Generation System Installation software provides – in an easy yet methodical way – to specify the number of audio channels dedicated to interpretation and intercom facilities.

Assigning seat numbers

The initial task in any installation is to assign seat numbers to delegate contribution units. The System Installation software offers a choice of two assignment methods:

1. From the hall, by physically pressing delegate microphone buttons in sequence. This is registered by the PC, which in turn automatically allocates the unit a number.
2. From the PC, where the operator selects a random microphone and allocates a number. The next assigned number will follow on sequentially. The software instantly recognizes when a new unit is installed by offering a seat number for the newly installed unit.

A dialogue box displaying the system configuration is available at any time, with the total number of installed delegate and chairman units, interpreter desks etc.

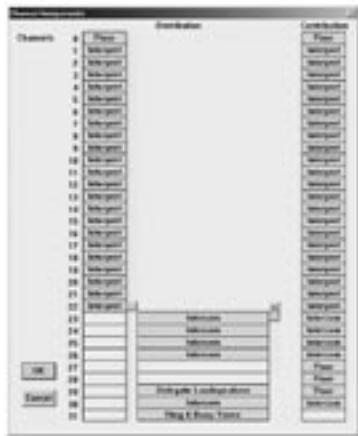
Downloading font sets

It is possible to download special font sets that allow certain DCN Next Generation contribution units to display characters in complex European languages, or icon-based scripts such as Chinese.

Audio channel assignment

The DCN Next Generation system offers 32 audio output channels, with a default configuration of 26 distribution, 4 contribution and 1 intercom link (requires 2 channels) channels. Ten distribution channels can be assigned to combinations of interpretations, floor language and intercom, with two channels reserved for line output and one for delegate loudspeakers as default. If required, all 31 channels can also be used for interpretations. All channel assignments are interdependent. The number of channels assigned to floor and intercom is dependent on the number required for simultaneous interpretation. In large international conferences using 31 interpretation

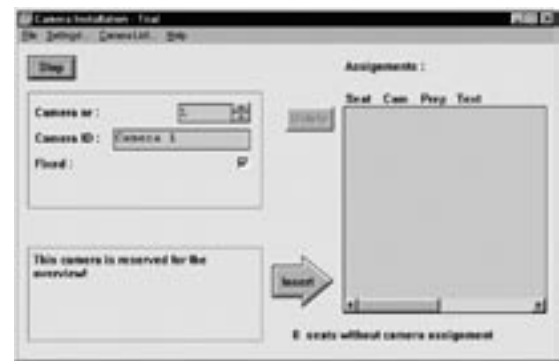
channels plus one floor channel, a channel is automatically assigned to interpreter intercom use. In such a case, the system performs totally as an interpretation system. The task of assigning audio channels is made easy with the aid of on-screen channel selection, using a display with three scroll bars that gives an instant overview of channel allocation and the effect of altering any of these. System Installation is primarily a preparation program. Once all microphones and delegate units have been assigned seat numbers and the audio channels configured and tested, there is no need to use System Installation for day-to-day monitoring and controlling of a conference. However, if the physical layout changes in the conference hall (delegate units are added, for example), the data in System Installation must be updated, and a message appears in the installation window. The conference-related information generated is stored in an installation file. The user can open, create, save, delete and save these files under a new name.



Ordering information

LBB 4185/00 System Installation

LBB 4162/00 LBB 4188/00 Automatic Camera Control



The DCN Next Generation Automatic Camera Control software interfaces DCN Next Generation congress systems with the Bosch Allegiant series of video control switchers. It selects fixed or pre-positioned cameras (such as the Bosch AutoDomes) to be activated to display the current active speaker at a conference.

Functions

When a chairman or delegate microphone is activated on the DCN Next Generation equipment, the camera assigned to that position is activated. When no microphones are active, an overview camera is automatically selected. The image can be displayed on hall displays or other monitors together with information about the current speaker if required (such as delegate identification). The system operator has a monitor, which also displays information about which camera is active. This system provides an extra dimension to congress and conference proceedings.

Ordering information

LBB 4162/00 Stand-Alone Automatic Camera Control

For systems without PC Control

LBB 4188/00 Automatic Camera Control

PC controlled

LBB 4189/00 DCN Next Generation Multi PC

The Multi PC software module is needed when more than one PC is required to control the DCN Next Generation system. All Slave PCs in a multi-PC environment are connected via Ethernet to the Master PC, which is connected to the CCU.

Features and Benefits

- Master / Slave configuration
- On-screen help facility

Functions

This module sets up the master/slave mode of all other modules in a multi PC environment. The Multi PC configuration is accessed from the menu in the Startup screen (LBB 4190/00).

Ordering information

LBB 4189/00 DCN Next Generation Multi PC

LBB 4187/00 Open Interface

The DCN Next Generation Open Interface software allows remote control of selected DCN Next Generation functions via third party equipment and control software. Control data exchange between DCN Next Generation and the remote control device or system is carried out via an RS232 port on the CCU.

Functions

Possible DCN Next Generation functions for remote control are:

- System Configuration
- System Installation
- Microphone Management
- Parliamentary Voting
- Attendance Registration
- Intercom
- Message Distribution

Ordering information

LBB 4187/00 Open Interface