

DCN Next Generation System

Talk about perfection



BOSCH
Invented for life



A total experience in **conferencing**

- ▶ Optimized structure and efficiency in meetings
- ▶ Proven in-the-field reliability
- ▶ State-of-the-art, award-winning design
- ▶ Very high speech intelligibility
- ▶ 31 interpretation channels, plus floor
- ▶ Full range of voting facilities
- ▶ Modular software solutions for complete conferencing management
- ▶ Flexible interfacing with 3rd party devices
- ▶ Easy system expansion with wired and wireless units

Your meeting is always in good hands

The Digital Congress Network (DCN) Next Generation from Bosch is the distinctive showpiece of digital conference management. It brings outstanding aesthetic appeal, reliability, flexibility and control to all proceedings. Moreover, it helps you take the next step in conference management. That's because Bosch designers have worked intensively together with experienced delegates, interpreters and operators to create a system that satisfies everyone in the entire conference chain.

In short, with the Bosch DCN Next Generation, you can relax. Your meeting is in good hands.

Efficiency and productivity assured

The DCN Next Generation has already earned global recognition, offering advanced, proven features that maximise meeting efficiency and productivity. On its most straightforward level, it effortlessly handles speaking and listening without the need for an operator. At its most advanced level, it is an integrated and multilingual communication infrastructure for facilitating and managing the most complex of international conferences – conferences that can host thousands of participants coming from all around the world. What's more, with the DCN Next Generation you also benefit from the support of Bosch – a reliable and established partner with many years of experience. A partner with a renowned, worldwide network of professional service engineers. That's why, when people think of conferencing, they think of Bosch.





Conference convenience in all it's aspects

Flexible system design

The DCN Next Generation puts you in total control of your conference environment, whether it's a permanent system or a configuration that needs to be regularly modified or expanded. The system is based around a Central Control Unit (CCU) that operates with or without application software. The delegate units are connected to each other by a simple "loop-through" configuration. In addition, other modules and components – such as cameras or interpreter desks – can be combined with total flexibility to form a complete, tailor-made system.

Easy system expansion

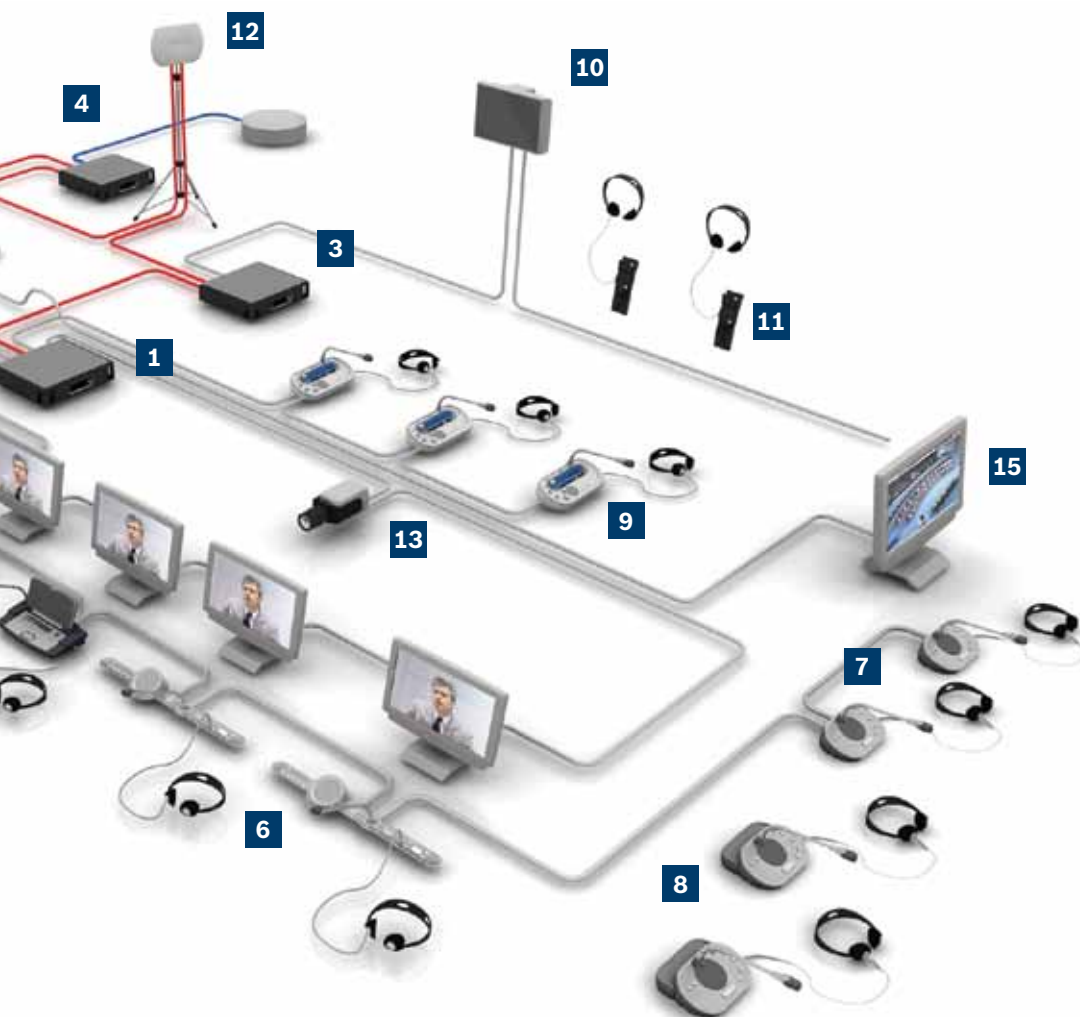
The DCN Next Generation is designed with versatility in mind. The system can be as small or as large as you need, and it is always easy to expand. Simply plug new delegate units into existing ones or add a secure Wireless Access Point (WAP) to connect wireless discussion units for difficult-to-reach or temporary positions. The WAP uses advanced, 128-bit AES Rijndael encryption to guarantee perfectly secure discussions. The system supports up to 4000 delegate units and is compatible with a wide range of external components such as cameras, public address systems, touchscreen controllers and video conferencing interfaces.

Audio expansion with a redundant backbone

Audio expanders (analogue or digital) can be easily connected for audio logging and/or distributing audio to other rooms. CobraNet™ devices are also available for real-time distribution of digital audio over Ethernet. And to distribute language channels to the audience, the Integrus transmitter can be integrated in the system. All these devices are connected using a loss-free high-speed fibre optic cable which also creates a secure and redundant backbone.



The Bosch DCN Next Generation can feature a mix of both wired and wireless delegate units – all of which are connected to the same central control unit. Experience the exceptional convenience when expanding your system or installing units in difficult-to-reach seats.



- 1 Central control unit
- 2 Digital audio expander
- 3 Integrus transmitter
- 4 CobraNet™ unit
- 5 Concentus units
- 6 Flush-mount units
- 7 Discussion units
- 8 Wireless discussion units
- 9 Interpreter desks
- 10 Integrus radiator
- 11 Integrus receivers
- 12 Wireless Access Point
- 13 Camera
- 14 DCN control software
- 15 Touchscreen
- 16 LCD video screen

The perfect discussion solution for any meeting

Innovation at every level

The DCN Next Generation line includes many different options to ensure an exact fit with your needs. Whether it's a compact table-top or a tailored flush-mount, every unit is equipped with Bosch-developed technology, such as high-quality plugable microphones, special loudspeakers for perfect intelligibility and all being completely immune from mobile phone interference.

Other options include electronic voting, ID cards and built-in channel selectors that offer up to 31 channels for simultaneous interpretation.

Award-winning design that encourages dialog

Design plays a key role in how people interact with each other and is a vital part of creating an environment that encourages constructive dialog. The DCN Next Generation, with its sleek control panel and intuitive layout, has an instantly familiar feel. Advanced acoustic and display technology makes it easy to hear and read exactly what's going on, so even new users feel at ease and in control. And that's good news for every conference, no matter what the topic.

The DCN Next Generation flush-mount range won the prestigious iF product design award. Available in high-style silver and dark charcoal finishes to match different decors.



Modular flush-mount units enable tailor-made fixed installations to be built into tables and arm rests.

Venue owners can save on the number of microphone units by using the Dual discussion units. These feature two separate talk buttons and separate headphone connections with individual interpretation channels for each delegate.

Available as wired or wireless versions the compact table-top discussion units are ideal for smaller venues like local councils.



Available with basic talk functions up to extended versions with additional (dual) channel selector and five addressable voting buttons.



All Concentus units feature an innovative, flat panel loudspeaker that improves acoustic performance (up to 20 kHz) and reduces feedback, resulting in outstanding speech intelligibility.



Concentus table-top unit, available in different versions from basic talking and voting, up to extended versions with channel selector, ID-card reader, and a backlit LCD screen that displays all standard International Windows characters, including icon-based scripts like Chinese and Japanese.



The DCN Next Generation can automatically show an image of the current speaker on monitors or large screens. This makes the system particularly suitable for Video Conferencing - especially when combined with Bosch AutoDome¹ cameras.



¹ Autodome® is a registered trademark owned by Bosch Sicherheitssysteme GmbH.



Using the secure and reliable electronic voting facility helps optimize the efficiency of your meetings. Voting results can easily be stored, printed out and displayed to the participants, contributing to the efficiency of meetings.

Accelerate meeting processes

Versatile voting

The DCN Next Generation incorporates standard parliamentary-style voting facilities. Using dedicated application software, the voting functionalities can be extended to include audience response, multiple choice and rating voting. Scripts can be pre-loaded and imported in real time and the results can be displayed instantly on flatscreens or dedicated hall displays in the conference venue. The chairman or operator always has full control over the starting and stopping of voting.

Delegate registration and identification

Conference participants can be registered and identified with PIN codes, ID cards or with biometrics such as fingerprint readers. When using an ID card, the card reader can be mounted at the venue entrance or integrated in the delegate unit, so that delegates can choose their own seats as the system automatically detects and registers identity and seat location. It is also possible to program individual authorizations so that delegates may only use certain functionality if they have the rights for it. Alternatively, it is possible to implement a 'simple' registration without identification by using a push button on the delegate unit.



The LCD screen on the top range Concentus unit has permanent backlighting, and can directly display voting results for parliamentary voting, multiple choice or audience responses.



Breaking through language barriers

Designed for interpreter satisfaction

The ergonomically designed interpreter desk is a powerful, intuitive tool for interpreters. Its design is based on comprehensive research on how to make the interpreters task easier and less tiring. It is especially useful for visually impaired interpreters, through the logical positioning of buttons and the possibility of audible feedback. Greater interpreter satisfaction leads to higher quality interpretation, enhancing the reputation of your venue.

Flexible configuration

Just plug the unit into the system cabling (where it's automatically recognized), power it up, and it's ready to go. This means you can add or subtract units depending on a specific event's language requirements, and you can reconfigure a multi-room venue at a moment's notice. You get to deliver high-quality interpretation services, with the flexibility to make last-minute changes. It all adds up to conferencing capabilities that are second to none.



Delegates can select the floor language or any of the 31 interpretation channels using the built-in channel selectors in the delegate units.



Audible beeps and pipples provide orientation for visually impaired interpreters

The intuitive display provides a comprehensive overview of available languages, floor, time and other valuable information.

The DCN Next Generation interpreter desk is designed in close collaboration with experienced interpreters. Not surprisingly, it earned global recognition and is the preferred choice for interpreters.



For wireless convenience, Integrus pocket receivers can be used to listen to the interpretation channels.

Control software for extended capabilities

Taking functionality to new heights

The DCN Next Generation System improves meeting efficiency with advanced microphone, voting and interpretation functionality. With the additional application software this functionality, and your meeting efficiency, is accelerated to new heights. For example, options include system configuration, synoptic control, advanced voting management, delegate database, attendance and access control as well as digital audio recording when using the Meeting Recorder application.

Powerful Conference Software Suite

The DCN Conference Software Suite by Bosch provides customers with a range of possibilities for control and customization. Beginning with the configuration application, the operator can easily set up all the requirements and necessary authorizations for each meeting. These include the synoptic layout, the delegates, the interpreters, the agenda, list of speakers, voting sessions, and more. The suite includes a wide variety of options for data like XML streams for advanced logging features and API functionality for interfacing with 3rd party applications.

The entire suite is remarkably ergonomic and the operator application is optimized for standard touchscreen monitors, making managing the system in real-time as intuitive as possible. Contextual help files provide instant support and the software design even takes color impaired users into consideration.

Smart control in an intuitive design

Designed for smaller venues, the Synoptic Microphone and Voting Software by Bosch is a self-contained software application with highly intuitive graphical user interface. All functions are controlled from a single window, there's support for touchscreen interaction, and onscreen help is available in most major languages.

The software supports a wide range of facilitation features, including automatic seat assignment, synoptic microphone monitoring and control, and voting management, including sending the real-time voting results to Microsoft PowerPoint² for displaying purposes.



The DCN Conference Software Suite is remarkably ergonomic and is optimized for standard touchscreen monitors, making it intuitive and easy to use.

² PowerPoint® is a registered trademark owned by Microsoft Corp.

Multiple products in one system

Many features – many benefits

Whichever delegate unit you choose, you are assured of multiple features that are designed (and proven) to maximize the efficiency and productivity of your meetings –whether they are small straightforward discussions, or large multi-lingual international meetings.

Benefits	Features	DCN Concentus	DCN Flush-mount	DCN Discussion	DCN Wireless discussion
Structured discussion	Discussion system	•	•	•	•
Different languages	Interpretation	•	•	•	•
Operator control	PC, touch screen	•	•	•	•
Information display	Large-scale screens	•	•	•	•
See who's talking	Automatic camera control	•	•	•	•
Voting	Voting buttons	•	•	•	•
Attendance registration and access control	PIN	•	•	•	•
Attendance registration and access control	ID cards	•	•		
Private conversation	Intercom	•	•		
Messages	LCD screen in unit	•			



From **small meetings...**

Guiding and controlling the discussion

Delegates request the floor by pressing the microphone button. Multiple requests are automatically placed on a waiting list by the CCU. The chair can register requests to speak and can override delegates with a priority key, which sounds an “attention” tone and mutes all delegate microphones. The system also includes a ‘voice mode’ which does not require the delegates to use the microphone on/off switch. This facilitates faster discussions.

Collecting and tallying votes

The system supports five kinds of voting: parliamentary, for/against, multiple choice, opinion polling and audience response. The Concentus chairman unit can be used to start and stop voting with the voting script and results are displayed on the unit’s graphic LCD panel. Voting can also be controlled remotely, by an operator using a PC or touchscreen, and results can be exported, in real-time and in various formats, to numeric hall displays or large screens.

Supporting video - without an operator

An image of the current speaker, including the speaker’s name, can be displayed on all monitors including those used for video conferencing.



Both wired and wireless units include a “voice” mode, which enables microphone usage without pressing the microphone on/off switch. This means that all delegates can participate in the faster discussions that “voice” mode encourages.





- 1 Discussion units with voting feature
- 2 Discussion chairman unit with voting feature
- 3 Central control unit
- 4 Modular AutoDome¹
- 5 Bosch Plena Public Address System with XLA 3200 Line Array Loudspeakers



...to advanced **international conferences**

Adding software controls

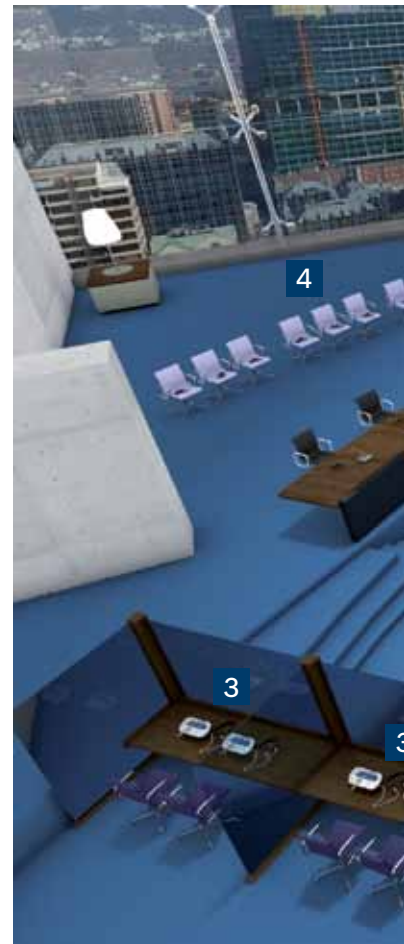
Advanced software functions give operators an added level of control. There are features for configuring authorizations, making agendas, listing delegates, programming ID cards, synoptic layouts and electronic voting.

Registering attendance

Attendance registration enables delegates to identify themselves at the entrance or at their conference unit. Delegate positions can be equipped with ID card readers that accept PIN-codes. For high-security situations, the DCN Concentus and DCN flush-mount units can be extended with a fingerprint reader for biometric verification.

Simultaneous interpretation

When language interpretation is needed, soundproof booths can be equipped with DCN interpreter units. Each interpreted language is automatically distributed to headphones connected to delegate units or flush-mount channel selectors. To give delegates greater freedom of movement, interpreted languages can also be directed to wireless Integrus pocket receivers.



Advanced software functions give operators an added level of control. There are features for configuring authorizations, making agendas, listing delegates, programming ID cards, synoptic layouts and electronic voting.





- 1 Flush-mount units with card-reader module
- 2 Flush-mount chairman unit with card-reader module
- 3 Interpreter desk *
- 4 Integrus receivers
- 5 Integrus radiator
- 6 PC and touchscreen with DCN Control Software

* The interpreter booths shown in the drawing are for illustration purposes only and do not represent a real situation. Requirements with respect to sound insulation and other general characteristics of interpreter booths are specified by ISO (the International Organization for Standardization) in:

- ISO 2603 - Fixed booths for simultaneous interpretation
- ISO 4043 - Mobile booths for simultaneous interpretation



Keeping pace with your changing needs

Staying flexible with wired and wireless options

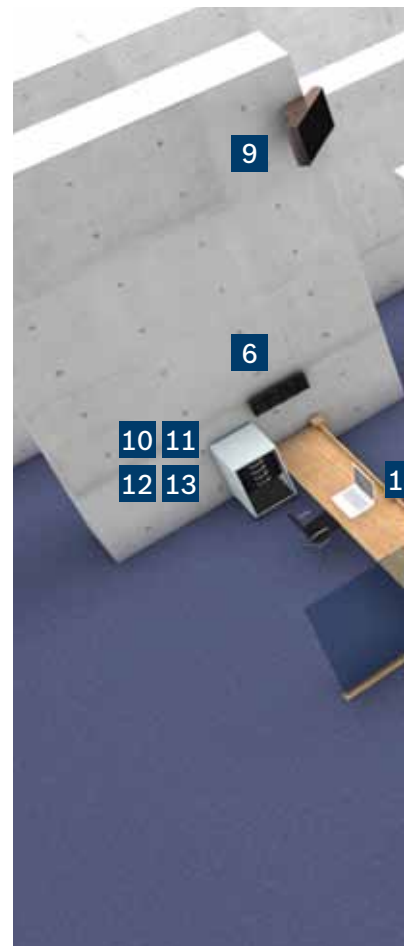
A DCN Next Generation system can be built using wired or wireless units, or any combination of the two. When combined, the system has the unique benefits of both unit types. Wired systems can be extended with wireless discussion units for larger conferences or difficult to reach positions. For even larger set-ups, more CCUs can be added and, no matter what the configuration, advanced software functions make it easy to operate.

Expanding the possibilities

The DCN conference elements can be joined together in any number of ways. The interpretation system can be combined with an Integrus system, for wireless distribution of up to 32 language channels. Plus, the entire set-up can be interfaced to third-party systems, including broadcast, building management, and public address facilities. As a customized solution, individual touchscreens can be added for voting functions and for instant access to online data.

Streaming content to remote participants

Using the Internet, the system can provide off-site delegates with full access to audio, video and data, so they can follow speeches, view presentation slides, see the live meeting video, get voting results, retrieve messages, and more.



When standard solutions and the many options simply aren't enough, a tailor-made solution can be created by the Custom Product & Project Solutions Group from Bosch. They have the expertise to create the extraordinary and can offer products of different size, appearance, functionality or with alternative system setups.





- 1 Concentus delegate units
- 2 Concentus chairman unit
- 3 Wired discussion units
- 4 Wireless discussion units
- 5 Wireless access point
- 6 Battery pack chargers
- 7 interpreter desk *
- 8 Integrus receivers
- 9 Integrus radiator
- 10 Central control unit
- 11 Digital audio expander
- 12 CobraNet™ unit
- 13 Integrus transmitter
- 14 DCN control software

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A Tradition of Quality and Innovation

For over 100 years, the Bosch name has stood for quality and reliability. Bosch is the global supplier of choice for innovative technology, backed by the highest standards for service and support.

Bosch Security Systems proudly offers a wide range of security, safety, communications and sound solutions that are relied upon every day in applications around the world, from government facilities and public venues to businesses, schools and homes.



Bosch Security Systems

To learn more about our product offering, please visit www.boschsecurity.com or send an e-mail to emea.securitysystems@bosch.com

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Local authority wireless approval

Although DCN Wireless equipment operates in a license-free band it is subject to local certification regulations. Please contact your nearest Bosch representative to check the situation in your country.