Remote meetings made easy
Interactive application configuration tool

In an ideal world, meetings take place in person. However, due to several reasons - illness, maternity leave, travel ban due to cost savings, or government restrictions such as Covid-19 physical distancing guidelines - this might not always be possible. In these remote meetings, the audio quality is often questionable and in meetings with many participants, it is often hard to see who is talking.

This is exactly why maximizing the capabilities of remote solutions becomes more important. We need good and accessible solutions that make remote meetings as natural and efficient as possible.

Bosch offers a wide range of conference solutions that can be easily connected to any remote meeting solutions. These not only provide the perfect solution for remote audio distribution, but can also facilitate remote video distribution.

Whether remote meeting participants are connected to a meeting room or multiple meeting rooms are interconnected, the concept stays the same: the control and conference devices of a Bosch conference system can be used in combination with external third-party conference platforms.

Benefit from the perfect combination of a Bosch conference system with a remote meeting solution

The remote solution allows for an easy integration of standard components into the Bosch conference system.

The system facilitates attending meetings from home when the need is greatest for example when travel is banned due to cost/time savings or government restrictions during a pandemic.

Automatic camera control always increases involvement in meetings. It enables all participants to see the face of the speaker, resulting in a near face-to-face meeting experience.

Audio quality is always the most challenging in remote meetings. This conference solution provides optimal audio quality due to dedicated conference microphones and loudspeakers for each delegate.

Bosch Security and Safety Systems
Visit boschsecurity.com for more information.

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Solution components

Any of the Bosch conference solutions can be used inside the conference room. Depending on the needs of your organization, you can choose the future proof and fully-featured IP-based DICENTIS Conference System, or go for the more straightforward, cost-effective CCS 1000 D Digital Discussion System. When safeguarding the integrity of the building, quick set-up and breakdown time, the WiFi-based DICENTIS Wireless Conference System is the perfect match.

### CCS 1000 D Digital Discussion System
- Plug-and-play cost-effective solution for small to medium meetings
- Convenient recording
- Native support for HD camera
- Advanced configuration and control
- Built-in acoustical feedback suppression
- Energy saving mode

### DICENTIS Wireless Conference System (DICENTIS W)
- WiFi-based conference solution with the most flexible seating arrangement
- Standard WiFi technology
- Zero audio interference
- Touch-screen participants devices
- True wireless connectivity
- Wireless redundancy

### DICENTIS Conference System
- Unique IP-based conferencing solution growing with your needs
- Future-proof solution with license-based expandability
- Flexible and cost-effective installation and maintenance
- Secure and reliable solution
- Easy integration with 3rd party equipment and software

To make the solution complete in the meeting room, you also need 3rd party system components.

- **CCS 1000 D**
  - Single meeting room setup, connecting multiple remote participants
  - Any of the Bosch conference solutions can be used inside the conference room. Depending on the needs of your organization, you can choose the future proof and fully-featured IP-based DICENTIS Conference System, or go for the more straightforward, cost-effective CCS 1000 D Digital Discussion System.

### DICENTIS Wireless conference solution in a meeting room with one single camera

The below system drawing is selected by default. Follow 5 simple instructions to access all information about the required application configuration:
1. Choose your preferred remote meeting setup.
2. View the different system elements and connections in the diagram and shopping list.
3. Click on the individual Bosch system elements in the diagram to access a direct link to the product data sheets.
4. Click on the individual 3rd party system elements in the diagram to access the links to the supported and recommended products.
5. Click the "configuration tips" button for optimal audio and video quality configuration.

### Shopping list

<table>
<thead>
<tr>
<th>Product description</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICENTIS Audio processing and powering switch</td>
<td>Supplies power to the conference devices and is responsible for routing, controlling and processing the audio signals.</td>
</tr>
<tr>
<td>DICENTIS Server</td>
<td>The heart of IP conferencing, at the DICENTIS services running on a pre-configured, virus protected and ready-to-go platform.</td>
</tr>
<tr>
<td>DICENTIS Multimedia devices</td>
<td>Other options are DICENTIS Discussion devices with touchscreen, language selector, voting or basic discussion. Chose between a plug-and-play system, long-term or high-directed conference.</td>
</tr>
<tr>
<td>3rd party video camera</td>
<td>High definition IP PTZ video camera with SMAC, Sony CG protocols or Panasonic HD Integrated Camera Interface specifications</td>
</tr>
<tr>
<td>3rd party local display</td>
<td>All displays with HDMI-port or Windows wireless displays are supported.</td>
</tr>
<tr>
<td>3rd party AV Bridge</td>
<td>Select a fitting AV bridge depending on the DS of the used laptop and the policy of your organization. Recommended: Blackmagic Design Web Presenter or Select AV bridge.</td>
</tr>
<tr>
<td>3rd party collaboration laptop</td>
<td>All currently-used Windows-based or Apple-based computers with online collaboration software are supported.</td>
</tr>
<tr>
<td>3rd party remote participants with laptop and headset</td>
<td>All currently-used Windows-based or Apple-based computers with online collaboration software are supported. Default headsets with USB connection supported by the participant's laptop. The laptop in the conference room runs the same communication platform as the laptop of all participants.</td>
</tr>
<tr>
<td>3rd party video encoder + DICENTIS Media sharing license</td>
<td>Only for video devices to be displayed on the DICENTIS multimedia device. No standard &quot;HDMI to RJ45&quot; video encoder made it possible to use the videostreams on the DICENTIS multimedia device. Recommended: Spheral VGA+HDMI broadcast (2x) or Atomik SNIP11 (DICENTIS release 3.4 onwards).</td>
</tr>
</tbody>
</table>

In the system setups of the different room setups, you can find which specific 3rd party devices are supported and recommended. Click-through links for these 3rd party manufacturers are also provided.

The participants outside the conference room need a basic setup to be able to follow and interact in the meeting. They are set with a headset and PC handling the same online collaboration tools as in the meeting room.
Multiple meeting room setups, connecting different locations

In the second setup, due to cost savings or flight restrictions, a group of participants cannot travel so it is necessary to connect two remote meeting sites with each other. Both meeting sites are equipped with professionally installed conference equipment. In both conference rooms, a computer is running the same collaboration software: either Skype, Teams, Zoom or other platforms. The locations can be further configured based on their individual setups: either with an AV bridge or with a single camera connected to the computer with the collaboration software. For details check the previous scenario.

The below system drawing is selected by default. Follow 5 simple instructions to access all information about the required application configuration:
1. Choose your preferred remote meeting setup for location 1 on the left.
2. Choose your preferred remote meeting setup for location 2 on the right.
3. View the different system elements and connections in the diagram and shopping list.
4. Click on the individual Bosch system elements in the diagram to access a direct link to the product data sheets.
5. Click on the individual 3rd party system elements in the diagram to access the links to the supported and recommended products.

Location 1

Location 2

CSC 1000 D Digital discussion solution in a meeting room with one single camera

DICENTIS Wireless conference solution in a meeting room with one single camera

Shopping list

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<tr>
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<tr>
<td><strong>CSC 1000 D Control unit</strong></td>
<td>Main component of the CSC 1000 D Digital discussion system. The unit provides power for the discussion devices and enables peripheral equipment to be connected to the system. Choose between the basic version or the version with built-in MP3 recording and CMS.</td>
</tr>
<tr>
<td><strong>CSC 1000 D Discussion device</strong></td>
<td>Choose between the discussion device with a fixed short- or a long-term microphone. Devices are configurable as participant- or chairperson devices.</td>
</tr>
<tr>
<td><strong>3rd party video camera</strong></td>
<td>High definition HD PTZ video cameras with ONVIF, Sony CGP protocol or Panasonic HD integrated Camera Interface specifications. 1.06 are all supported. (see detailed overview in system setup)</td>
</tr>
<tr>
<td><strong>3rd party local display</strong></td>
<td>All displays with HDMI-port or Windows wireless displays are supported.</td>
</tr>
<tr>
<td><strong>3rd party collaboration laptop</strong></td>
<td>All currently-used Windows-based or Apple-based computers with online collaboration software are supported.</td>
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Internet connection

Remote participants with laptop and headset

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<td><strong>DICENTIS Wireless access point</strong></td>
<td>The central device has a built-in web browser interface for set-up, configuring and controlling the DICENTIS Wireless conference system. The WPAP link the wireless discussion devices by means of secure wireless WiPAQ communication.</td>
</tr>
<tr>
<td><strong>DICENTIS Wireless device</strong></td>
<td>Choose between the DICENTIS Wireless discussion device and the DICENTIS Wireless discussion with touch-screen. Choose between a pluggable short-term, long-term or high-directive microphone.</td>
</tr>
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<td><strong>3rd party video camera</strong></td>
<td>High definition HD PTZ video cameras with ONVIF, Sony CGP protocol or Panasonic HD integrated Camera Interface specifications. 1.06 are all supported. (see detailed overview in system setup)</td>
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Internet connection

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www or corporate
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The links to the websites of the supported 3rd party products are subject to change.