

# DCN API Demonstrator

DCN-SWAPI



**BOSCH**



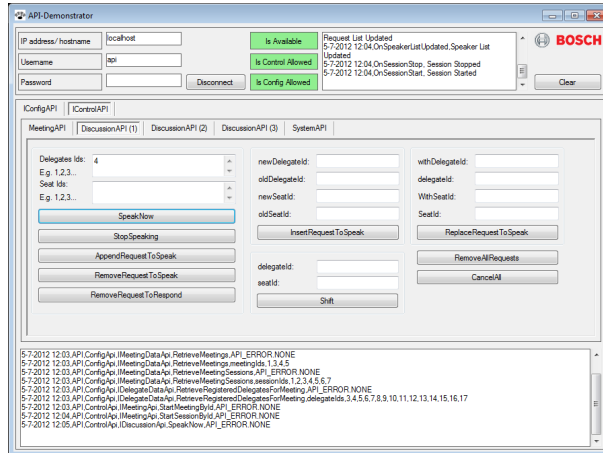
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## Table of contents

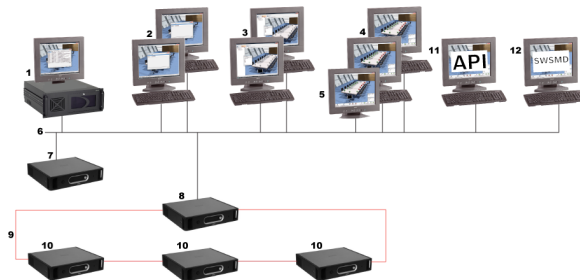
<b>1</b>	<b>Introduction</b>	<b>4</b>
1.1	Copyright and disclaimer	5
<b>2</b>	<b>Requirements</b>	<b>6</b>
<b>3</b>	<b>Getting started</b>	<b>7</b>
<b>4</b>	<b>Troubleshooting</b>	<b>13</b>

# 1 Introduction

The DCN-SWAPI Demonstrator is a PC-application communicating with the DCN-SW server to configure and control the DCN Next Generation conference system, using the DCN-SWAPI software module.



All DCN-SW components can - but do not necessarily need to be - run from separate computers to integrate seamlessly with each other. This allows the possibility for assigning functionality to different users and/or PCs, or, for instance, let one or more users configure the set-up and register delegates (Bosch DCN Conference Software Configuration Application), and other users actually control the meeting on separate PCs (Bosch DCN Conference Software Operator Application).



1. Bosch DCN Conference Software Server and Server Console
2. Bosch DCN Conference Software Print Application
3. Bosch DCN Conference Software Configuration Application
4. Bosch DCN Conference Software Operator Application
5. Touch screen
6. Ethernet connections
7. CCU2 (standalone) (Central Control Unit)
8. CCU2 (master in multi ccu mode) (Central Control Unit)
9. Bosch optical network
10. CCU2 (slave in multi ccu mode) (Central Control Unit)
11. DCN-SWAPI (Software API)
12. DCN-SWSMD (XML Streaming Meeting Data)

## 1.1 Copyright and disclaimer

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## 2 Requirements

The DCN-SWAPI Demonstrator application is developed to run on Windows Vista \* and Windows 7 \* 32-bit or 64-bit operating systems, having the latest updates and service packs installed.

\* excluding starter versions.

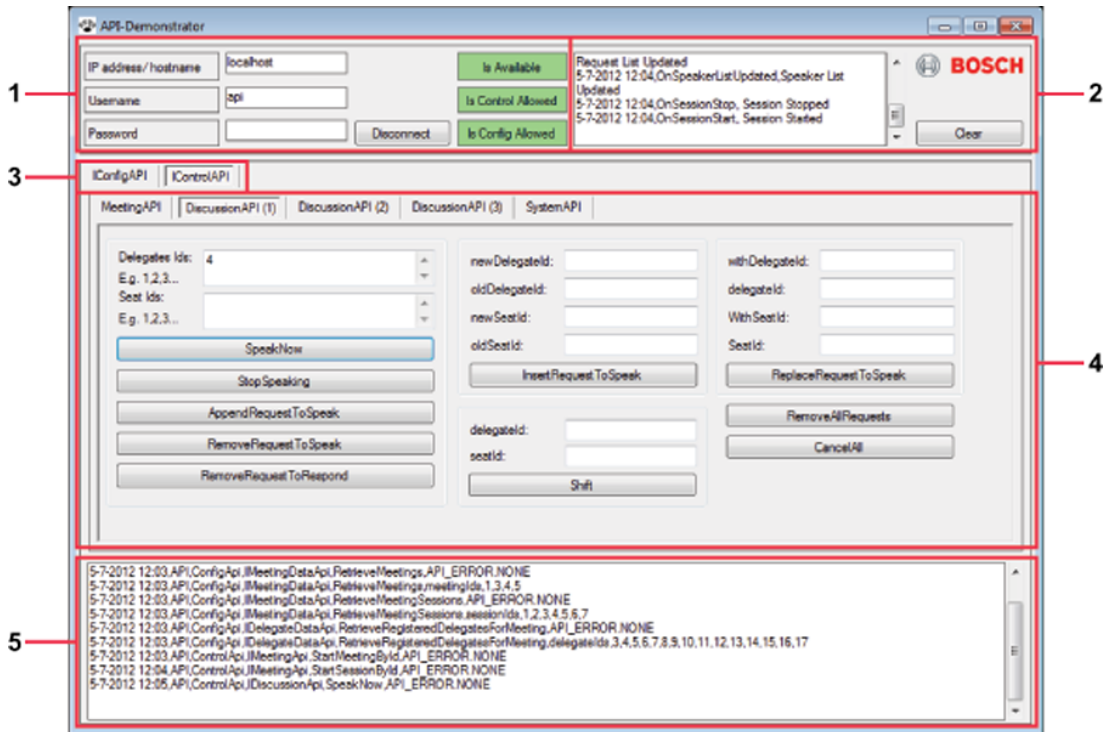
### 3 Getting started

- The DCN-SWAPI Demonstrator application supports DCN Next Generation conference systems from version 4.1 onwards, and can be found in the directory: \Tools\DcnApiDemonstrator\Application\ on the [DVD] supplied with the DCN-CCU(B)2.
- The source code of DCN-SWAPI Demonstrator application can be used to make your own customer specific version, and can be found in the directory: \Tools\DcnApiDemonstrator\Sources\ on the [DVD] supplied with the DCN-CCU(B)2.
- DCN-SWAPI and DCN-SW helpfiles and manuals can be found in the directory: \docs\ on the [DVD] supplied with the DCN-CCU(B)2.

#### The user interface

The user interface of the DCN-SWAPI Demonstrator application guides you through the actions required to configure and control the DCN Next Generation conference system.

After starting-up the DCN-SWAPI Demonstrator application, the initial screen is displayed, which is divided in the following screen sections:



1. DCN-SW Server connection section.
2. Event information section.
3. IConfigAPI and IControlAPI functionality selecting section.
4. API methods section.
5. Method information section.

### Using the DCN-SWAPI Demonstrator

In the next steps you will activate a microphone on the basis of the delegation on that chair. In order to achieve this, you have to:

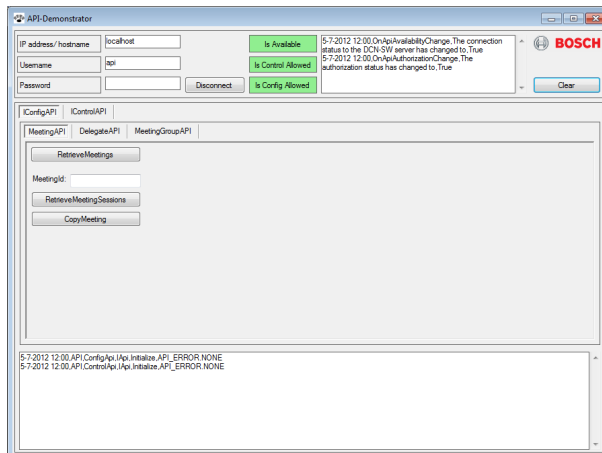
- Establish the connection with the DCN-SW server,
- retrieve the available meeting and session ID's,
- retrieve the participants of the meeting and the participant ID of the delegate who's microphone you want to activate,
- start the meeting,
- start the session,
- and activate the participants microphone.

### Establish the connection with the DCN-SW server

To establish the connection between the DCN-SWAPI Demonstrator and DCN-SW server, do the following:

- ▶ On the DCN-SW server connection section (1), establish the connection with the DCN-SW Server by typing *IP address or hostname*, *username* and *password* in the text box and then click the *Connect* button:

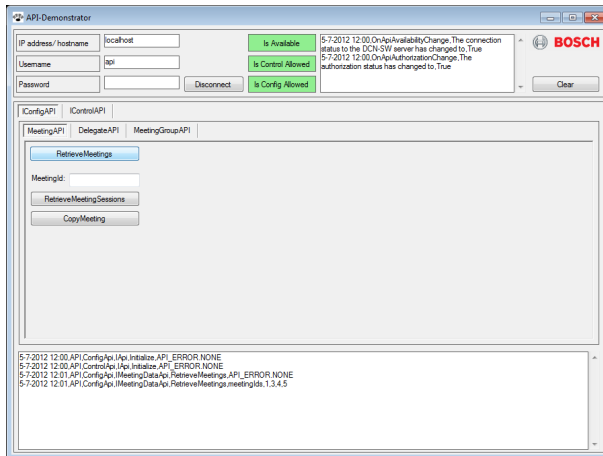
For results, see the *Event information section (2)*:





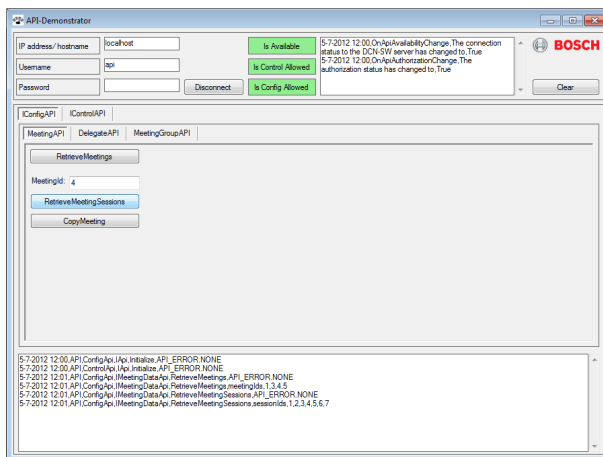
### Retrieve meetings

- ▶ Click *IConfigAPI* (section 3), click *MeetingAPI* (section 4) and then click the *RetrieveMeetings* button, to retrieve the available meetings:  
For results, see the sections: *Event information (2)* and *Method information (5)*:



### Retrieve sessions

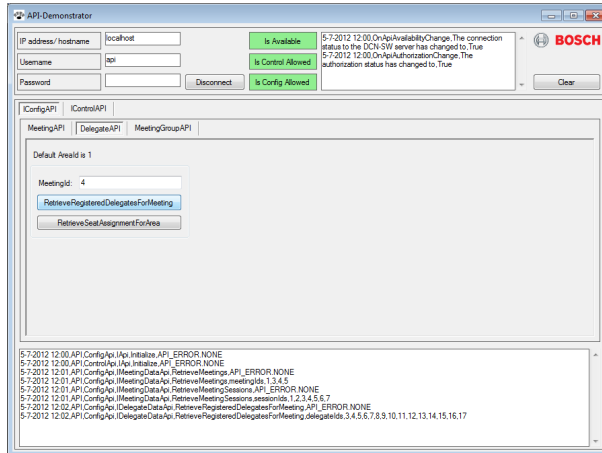
- ▶ On the *IConfigAPI* section (3), click *MeetingAPI* (section 4) and then click the *RetrieveMeetingSessions* button to retrieve the available sessions for the requested meeting:  
For results, see the sections: *Event information (2)* and *Method information (5)*:



## Retrieve delegates

- ▶ On the *IConfigAPI* section (3), click *DelegateAPI* (section 4) and then click the *RetrieveRegisteredDelegateForMeeting* button to retrieve delegates for the requested meeting:

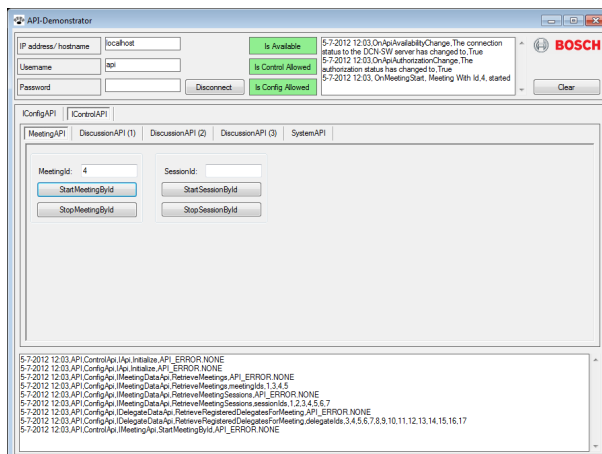
For results, see the sections: *Event information* (2) and *Method information* (5):



## Start meeting

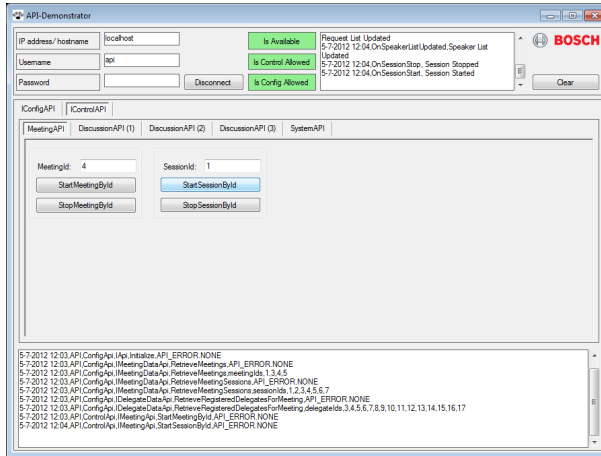
- ▶ On the *IControlAPI* section (3), click *MeetingAPI* (section 4) and then click the *StartMeetingById* button to start the requested meeting:

For results, see the sections: *Event information* (2) and *Method information* (5):



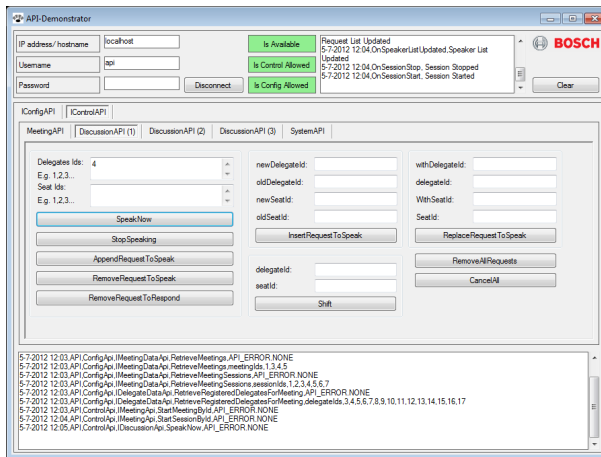
### Start session

- ▶ On the *IControlAPI* section (3), click *MeetingAPI* (section 4) and then click the *StartSessionById* button to start the requested session:  
For results, see the sections: *Event information* (2) and *Method information* (5):



### Activate participant microphone

- ▶ On the *IControlAPI* section (3), click *DiscussionAPI(x)* (section 4) and then click the *SpeakNow* button to activate the microphone of the requested participant:  
For results, see the section: *Method information* (5):

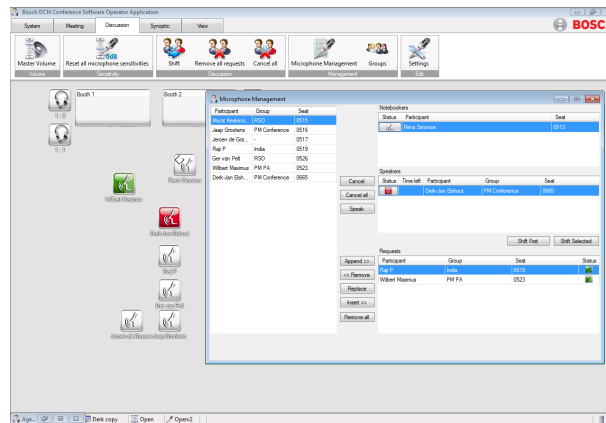


## Copy source code

If needed, copy the relevant source code from the DCN-SWAPI Demonstrator application (section 5) to paste, and use, it in your own program.

## Hints

- With the DCN-SW Operator client, configure a new user for the DCN-SWAPI client which is different than the user for the DCN-SW Operator client. This to run the DCN-SWAPI Demonstrator simultaneously with the DCN-SW Operator client.
- The behaviour of the functions is easier to understand if the DCN-SWAPI Demonstrator and the DCN-SW Operator Client are simultaneously active (only possible when using two different users.).



## 4 Troubleshooting

- To be able to run the DCN-SWAPI Demonstrator, the DCN-CCU needs the DCN-SWAPI license.
- If the DCN-SWAPI runs from another PC than the DCN-SW Server PC, the DCN-CCU also needs the (DCN-SWMPC) multi PC license.
- To activate microphones based on Delegate ID, the DCN-CCU needs the Delegate Database (DCN-SWDB) license.
- To control request lists and discussion settings, the DCN-CCU needs the Microphone Management (DCN-SWMM) license.
- The *Event information section (2)* of the DCN-SWAPI Demonstrator can be used for faultfinding and debugging purposes of your own code.
- The DCN-SW server client uses port 9641 for the API; make sure it is open in the firewall.





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