

SW6000 Conference Management Software, Version 6.8

# **SW6000** Installation Manual

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| 002.150.234 001.218.032 002.038.227  |
|  |
| Advanced V Hostname: 10.0.2.60   |
| Set License Add Delete Update Cancel Connect to Exit   |

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### 1 Introduction

This manual describes how to <u>design</u> a DCS 6000 Conference system using the SW6000 Software Packages, how to <u>install</u> the SW6000 Software Packages and how to <u>setup</u> the system for running the first time.

This document does however <u>not</u> describe the use of the applications like i.e. the CUA and CAA in details. Please consult the relevant manuals.

#### 1.1 Minimum Requirements

The minimum requirements for a PC running an application are:

- Min. CPU @ 2GHz
- Min. 2 GB RAM
- Min. 10 GB HD
- USB port if CP 6001 Chip Card Programmer is to be used
- TCP/IP network connection
- VGA screen. Refer to the 'User Manual CUA' and 'User Manual CAA' for information on min. resolution

#### 1.2 **Compatibility**

# Please check the Software-Firmware compatibility chart for compatibility before upgrading.

If the MXC or DCS 6000 system is an earlier release, an upgrade of the system may be needed. Please consult <u>www.shure.com</u> for information about updating your system.

#### 1.3 Supported Operating Systems

SW6000 Software v6.8 or later versions support standard installations\* of the following operating systems

- Windows Server 2012 R2
- Windows 7 (32 bit and 64 bit)
- WIN 8.1 x86 Enterprise/Professional/Standard
- WIN 8.1 x64
   Enterprise/Professional/Standard
- WIN 10 PRO

#### Important:

Windows XP and Vista operating systems are NOT supported

Windows Server 2008, 2008 R2 is NOT supported

#### \*Important:

Please notice that cloned operating systems are not considered a standard installation. Clones may cause problems with e.g. duplicate SIDs causing the MSDTC to fail and duplicate QMId's in the registry causing MSMQ communication to fail.

Clones should therefore be used with caution and only by experienced IT people.

#### 1.4 Download Web-site

The SW6000 Software Package including Prerequisites and User Manuals is available for download on dis.cc and shure.com.

#### 1.5 User Manuals

The use of the applications and modules is found in the following manuals:

- User Manual CAA Conference Admin Application
- User Manual CUA Conference User Application
- User Manual CDA Conference Display Application
- User Manual ECA External Control Application
- User Manual SW6000-ADV Advanced Meeting Management
- User Manual SW6000-ESI External System Interface
- User Manual SW6000 Registration Facility

## 2 Licensing

#### 2.1 SW6000 General Description

The use of the SW6000 applications and modules is controlled by a 'SW6000 License' file, which is needed for running SW 6000.

The SW6000 software has the following general features:

- Client/server system for multiple PCs
- Multiple user profiles with different functionality
- Full language support
- Very user friendly graphical design of high quality
- Data stored in SQL database format

#### 2.2 SW6000 Conference Management Software (basic)

The basic software is mandatory and includes the following applications:

- CAA Conference Admin Application (one instance)
- CUA Conference User Application (one instance) incl. CUA voting client
- ECA External Control Application and the following functionality:

Mosting Creation

- Meeting Creation
- Agenda Control
- Messaging
- Microphone Control
- Mimic/synoptic layout
- Participant Table
- Interpretation Control
- Multiple Languages
- ID Card Registration & Programming
- Multiple Room Control

#### 2.3 SW6000 Optional Modules and Applications

The functionality in the SW6000 Conference Management Software (basic) can be expanded with the following optional modules and applications:

#### 2.3.1 SW6000-VOTE

The Parliamentary Voting module enables start/stop of voting from the CUA application and is needed if voting in the system is required.

#### 2.3.2 SW6000-ESI

The External System Interface module includes the following functionality:

- Import/Export of meetings
- Streaming Application Control
- Web Service Interface (Streaming of Dynamic data)

#### 2.3.3 SW6000-ADV

The Advanced Meeting Management module expands the functionality in the basic software with the following advanced controls:

- Advanced Microphone Control
- Advanced Agenda Control
- Advanced Speech Time Control

#### 2.3.4 SW6000-CAA

CAA Conference Admin Application. SW6000 basic includes the use of one CAA instance.

Up to 15 additional CAA instances can be used simultaneously in SW6000.

#### 2.3.5 SW6000-CUA

CUA Conference User Application. SW6000 basic includes the use of one CUA instance.

Up to 199 additional CUA applications can be used simultaneously in SW6000.

This application includes the facility to vote from the CUA application if the system is expanded with the 'SW6000-VOTE' parliamentary voting module.

#### 2.3.6 SW6000-CDA

The CDA Conference Display Applications is used for displaying content for the audience or participants in the meeting.

### Up to 16 CDA applications (instances) can be used simultaneously in SW6000.

#### 2.3.7 Facilities in the Optional Modules and Applications

The following table shows the optional Applications and Module Licenses available for SW6000:

|   |              | nin April  | er Aoolieu.                            | roon door                               | colico      | Voting | danced Mic         | anced Ac. Cophone C | Vanced Social Control | ranced in time 2       | earning Aport Export of | Joshie Mierian ' on meen |
|---|--------------|------------|--|---|-------------|--------|--------------------|---------------------|-----------------------|------------------------|-------------------------|--------------------------|
| Facilities not included in SW6000 Basic               |              | SW6000-CAA | SW6000-CUA                             | SW6000-CDA                              | SW6000-VOTE | sw(    | <u>/マ</u><br>6000- | / <u>₹</u>          | sw                    | <u>/ S<sup>2</sup></u> | )-ESI                   |                          |
| Admin facility (more than one instance) CAA           |              | X          |  |   |             |        |                    |                     |                       | 1                      |                         |                          |
| Participant User interface (more than one instance) C | Applications |            | x                                      |   |             |        |                    |                     |                       | 1                      |                         |                          |
| Vieving of information on Large Screens CDA           |              |            | ******************                     | X                                       |             |        |                    |                     |                       | éccence                | in constants            |                          |
| Voting  |              |            |  |   | x           |        |                    |                     |                       |                        |                         |                          |
| Voting Mimic Diagram                                  |              |            |  | ¢                                       | x           |        |                    |                     |                       | 1                      |                         |                          |
| Meeting, Proxy Votes                                  |              |            |  |   | x           |        | 1000000            |                     |                       |                        |                         |                          |
| View Voting Results                                   | Voting       |            | ¢                                      | 4                                       | x           |        |                    |                     |                       |                        |                         |                          |
| Search in Voting Results                              |              |            |  |   | x           |        | x                  |                     |                       |                        |                         |                          |
| Voting Configuration                                  |              |            | C                                      |   | x           |        |                    |                     |                       | éccence<br>I           | feeeeee                 |                          |
| Use Secondary Meeting Role                            |              |            |  |   |             | х      |                    |                     |                       | 1                      |                         |                          |
| Podium Microphones                                    | Microphone   |            | ĺ                                      | <u>.</u>                                |             | x      |                    |                     |                       |                        |                         |                          |
| Assing 'Show Name' to Meeting Role                    |              |            | *************************              |   |             | x      |                    | 01000010            |                       | .eeeeeeee              | joneeneer<br>           |                          |
| Participant Speech Time                               |              |            |  |   |             |        |                    |                     |                       |                        |                         |                          |
| Group Speech Time                                     | Crossel Tir  |            |  | 1                                       |             | 1      |                    | х                   |                       |                        |                         |                          |
| Manual Speech Time                                    | Speech Time  |            |  | 000000000000000000000000000000000000000 |             | cecece | 2101010101010      | Х                   |                       | 40000000<br>1          | Concessor<br>5          |                          |
| Meeting Role Speech time                              |              |            |  | *****                                   |             |        |                    | х                   |                       |                        |                         |                          |
| Agenda Subject Configuration                          |              |            |  |   |             |        | x                  |                     |                       | -                      |                         |                          |
| Speaker Type Configuration                            |              |            |  |   |             |        | x                  |                     |                       | [                      |                         |                          |
| Insert of Speakers in Agenda                          | Annuda       |            | 60100000000000000000000000000000000000 |   |             | connec | x                  |                     |                       | 4000000<br>            | 100000000<br>5<br>5     |                          |
| Open Mic On   | Agenda       |            |  | ••••••••                                |             | x      |                    |                     |                       |                        |                         |                          |
| Links in Agenda                                       |              |            |  |   |             |        | x                  |                     |                       |                        |                         |                          |
| Multiple Speeches per Subject                         |              |            |  | 000000000000000000000000000000000000000 |             |        | x                  |                     |                       | 0000000                |                         |                          |
| Meeting, Alert on CDA                                 |              |            |  |   |             |        | x                  |                     |                       |                        |                         |                          |
| Messages, Send to Group                               | Message      |            |  | 1                                       |             |        |                    | х                   |                       |                        |                         |                          |
| Groups Table  | Participants |            |  |   |             |        |                    | х                   |                       |                        |                         |                          |
| Web Browser   | Browser      |            |  |   |             |        | x                  |                     |                       |                        |                         |                          |
| Meeting, Import/Export                                |              |            |  |   |             |        |                    |                     | х                     |                        |                         |                          |
| Start/Stop of external Streaming Application          | External     |            |  |   |             |        |                    |                     |                       | х                      | х                       |                          |
| Web Service Configuration                             | Connection   |            | Ç                                      | <u>.</u>                                |             |        |                    |                     |                       |                        | х                       |                          |
| Dynamic data output during meeting                    |              |            |  | [                                       |             |        |                    |                     |                       | 5<br>5                 | x                       | l .                      |

### 3 System design

Prior to installing the software the system has to be designed, as the SW6000 Software Package gives options for all in-between a small installation with one PC and a large installation with more than 1000 PCs.

#### 3.1 Applications

The SW6000 Software Packages consists of 4 main applications

- CUA Conference User Application
- CAA Conference Administrator Application
- CDA Conference Display Application
- ECA External Control Application

and the interface application for establishing the connection to the CU 6105/6110 or DIS-CCU:

• CUI – CU Interface

An application for backing up data and restore data is also part of the package:

• SW6000 Backup Utility

The meeting data (Participant names, Meeting names etc.) is stored in one of the following database installations:

- Microsoft SQL 2012 server, Enterprise Edition or Standard Edition
- Microsoft SQL 2014 server, Enterprise Edition or Standard Edition
- Microsoft SQL 2016 server, Enterprise Edition or Standard Edition
- Microsoft SQL 2017 server, Enterprise Edition or Standard Edition

The Microsoft SQL Express 2014 server is delivered as part of the SW6000 package.

**Important:** The following SQL servers are not supported:

Microsoft SQL server 2005 Express

Microsoft SQL server 2000, Enterprise Edition or Standard Edition

Microsoft SQL server 2005, Enterprise Edition or Standard Edition.

\*Microsoft SQL server 2008, Enterprise Edition or Standard Edition

\*Microsoft SQL server 2008 Express

\*Microsoft has announced that **On July 9, 2019, support for SQL Server 2008 will end.** It is therefore strongly recommended, that the SQL server 2008 and SQL Express 2008 is updated.

#### 3.2 Installation design

The CUI, CUA, CAA, CDA and ECA applications can all be installed on the same PC or all on separate PCs.

Only one instance of the CUI, CUA and CAA can be started on one PC.

**Important:** For performance reason the CUI should be installed at the same PC/Server as the database.

Before installing the applications the design of the system has to be decided.

The following schematics are showing various system designs with SW6000 applications. The abbreviations shown above are used in the schematics:

#### 3.2.1 One PC System Design

#### 3.2.1.1 Chairman or Technician control

| Design          | This design is used, where |  |
|-----------------|----------------------------|--|
| characteristics | control is done by the     |  |
|                 | Chair or a Technician.     |  |

| The PC can be placed in the meeting room or in a |
|--|
| technician booth.                                |
|  |



Figure 3.2-A Standard one PC installation

#### 3.2.2 Installation with Multiple PC's

#### 3.2.2.1 Chairman & multiple Delegates

| Design<br>characteristics | This design is used, where<br>some or all of the<br>Participants have access<br>to a PC. The control of the<br>system can be done from<br>any PC with CUA installed<br>where the Meeting Role<br>gives control privileges'<br>i.e. the 'Technician' or the |
|---------------------------|--|
|                           | 'Chairman'.  |
|                           | system administration is<br>done on the 'MS Server' or<br>on the 'Chairman PC'.  |

| Reservations | Running the CUI on a<br>Windows 7 operating<br>system is only suitable for<br>systems with up to 10<br>users. With more than 10<br>users, the CUI must run<br>on a Windows Server.                                |
|--------------|---|
|              | For systems with less than<br>25 users, the SQL Server<br>Express Edition can be<br>used. For systems with<br>more than 25 users, it is<br>recommended to use an<br>SQL Server version for<br>better performance. |
|              | SQL Servers require<br>Microsoft licenses.  |



Figure 3.2-B Installation with multiple PC's

#### 3.2.2.2 Chairman & Technician control including Display and External control

| Design          | This design is used, where a |
|-----------------|------------------------------|
| characteristics | 'Chairman' is controlling or |
|                 | monitoring the system and    |
|                 | where a 'Technician' can     |
|                 | take over the control of the |
|                 | system if needed.            |
|                 | Administration is done on    |
|                 | the 'Technician' PC.         |
|                 |                              |

| Reservations | Running the CUI on a<br>Windows 7 operating<br>system is only suitable for<br>systems with up to 10<br>users. With more than 10<br>users, the CUI must run on<br>a Windows Server.                                |
|--------------|---|
|              | For systems with less than<br>25 users, the SQL Server<br>Express Edition can be<br>used. For systems with<br>more than 25 users, it is<br>recommended to use an<br>SQL Server version for<br>better performance. |
|              | SQL Servers require<br>Microsoft licenses.  |



Figure 3.2-C Installation with multiple PC's

#### 3.2.2.3 Chairman & Delegates control >10 PCs

| Design<br>characteristics | This design is used, where<br>some or all of the<br>Participants have access to<br>a PC. The control of the<br>system can be done from<br>any PC with CUA installed<br>where the Meeting Role<br>gives control privileges'<br>i.e. the 'Technician' or the |
|---------------------------|--|
|                           | 'Chairman'.  |
|                           | Administration is done on<br>the 'Technician' PC or on<br>the 'Administration' PC.   |

| Reservations | Running the CUI on a<br>Windows 7 operating<br>system is only suitable for<br>systems with up to 10<br>users. With more than 10<br>users, the CUI must run<br>on a Windows Server.                                |
|--------------|---|
|              | For systems with less than<br>25 users, the SQL Server<br>Express Edition can be<br>used. For systems with<br>more than 25 users, it is<br>recommended to use an<br>SQL Server version for<br>better performance. |
|              | SQL Servers require<br>Microsoft licenses.  |



Figure 3.2-D Installation with multiple PC's

### 4 Software Installation

#### 4.1 'One PC' Installation or first installation in a multi-PC system

The following installation procedure describes how to install the SW6000 Software on a PC in a design as described in the section '3.2.1 One PC System Design'.

Important: This installation is also recommended to use to install on the Server/PC, where the database is to be placed in a multi-PC system.

#### 4.1.1 Installing SW6000

| 1. | Download the SW6000 software from the Shure download web site.  | InstallShield Wizard  SW6000 requires that the following requirements be installed on your computer prior to installing this application. Click DK to begin installing these requirements:   |
|----|---|--|
|    | Click on the Setup.exe in the 'SW6000<br>#Installation' folder in the SW6000 Software<br>package,                         | Status         Requirement           Pending         SW6000 Prerequisites Windows Installer 3.1           Pending         SW6000 Prerequisites English. NET Framework 2.0           Pending         SW6000 Prerequisites XP MSMQ Setup Core           Pending         SW6000 Prerequisites XP MSMQ Setup TriggersService |
|    | 'The install Shield Wizard' will automatically show a list of 'Prerequisites' required for running SW6000                 |  |
|    | Click 'Install' and continue clicking 'Install' until<br>you are asked if you want to install the SW6000<br>Applications. | Install Cancel   |
| 2. | After installing the 'Prerequisites', the   | [ 날] SW6000 - InstallShield Wizard   |

| 2  | Accort the License Conditions and click (Next)               | W6000 - InstallShield Wizard  |
|----|--|---|
| 5. |  |   |
|    |  | Please read the following license agreement carefully.  |
|    |  |   |
|    |  | Software License Agreement  |
|    |  | Please read the following terms and conditions carefully.   |
|    |  | have read this agreement, understand it and accept the terms of this  |
|    |  | agreement. If you do not agree to the terms of this agreement, do not use this software.                          |
|    |  | End-user License Agreement for SHURE Software   |
|    |  | Important - read carefully  |
|    |  | This SHURE End-User License Agreement ("EULA") is a legal agreement   |
|    |  | I accept the terms in the license agreement     Print   |
|    |  | Loo fot accept the terms in the idense agreement  |
|    |  | Anstalionield   |
|    |  |   |
| 4. | The installation gives two choices:                          | SW6000 - InstallShield Wizard   |
|    | 'One PC' installation and 'Advanced Installation'.           | Setup Type<br>Choose the setup type that best suits your needs.   |
|    | Select 'One PC' and click 'Next'                             | Please select a setup type.   |
|    |  | One PC  |
|    |  | Following Applications will be installed by default:  |
|    |  | CUI Central Unit Interface Application  |
|    |  | CAA Conference Administrator Application  |
|    |  | SW6000 Database   |
|    |  | Advanced Installation   |
|    |  | Choose which program features you want installed. Recommended   |
|    |  | for advanced users.   |
|    |  | InstallShield   |
|    |  | <pre><back next=""> Cancel</back></pre>   |
|    |  |   |
| 5. | Select default language.                                     | B SW6000 - InstallShield Wizard   |
|    | Important: The default language can                          | Select installation features Select which Applications to install SHURE   |
|    | cannot be changed after the installation                     | Install/Autorun By default  |
|    |  | CUI Central Unit Interface Application The selected applications will be installed.                               |
|    | Click 'Next'   | CAA Conference Administrator Applica The Database will default be named SW6000-1                                  |
|    |  | ✓         CUA Conference User Application         Autorun is enabled for applications to be started at boot time. |
|    | The 'CAA', 'CUI', 'CUA' and 'SW6000' will then be installed. | Install SW6000 Database   |
|    | The applications will start-up automatically                 |   |
|    |  | Select Default Language   |
|    |  | Current selection English (United States)   |
|    |  | InstallShield   |
|    |  | < Back Next > Cancel  |
|    |  |   |

| 6  | Click Install                                     | 😸 SW6000 - InstallShield Wizard   |
|----|---|---|
| 0. |   | Ready to Install the Program  |
|    |   | The wizard is ready to begin installation.  |
|    |   | Click Install to begin the installation.  |
|    |   | If you want to review or change any of your installation settings, dick Back. Click Cancel to |
|    |   | Exit ule wizard.  |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   | InstallShield   |
|    |   | < Back Install Cancel   |
| 7. | If no SQL server is installed previously you will | 🔀 SW6000 Installer Information  |
|    | be asked to confirm if you want the SQL server    | CUK200 anking the user Manager Coll Common 2000   |
|    | 2008 Express to be installed.                     | Express SP1 (x86 & x64Wow). Would you like to install   |
|    | Click 'Yes'                                       | it now?   |
|    |   |   |
|    |   | Yes No  |
| Q  | The SOL 2008 Server Express is now being          | ₩ SW 6000   |
| 0. | installed   | Installing 5W6000   |
|    | instancu.   | The program features you selected are being installed.  |
|    |   | Please wait while the InstallShield Wizard installs 5W6000. This may take several minutes.    |
|    |   | Status:   |
|    |   | Installing Microsoft SQL Server 2008 Express SP1 (x86_x64Wow)                                 |
|    |   |   |
|    |   |   |
|    |   | Extracting File: _sfx_0238_p<br>To Directory: c:\c6c57c58c0da150f8a811be7e50c3c               |
|    |   |   |
|    |   | InstallShield -   |
|    |   | < Back Next > Cancel  |
| 9. | The software is installed                         | B SW6000 - InstallShield Wizard   |
|    |   | Installing SW6000 The program features you selected are being installed. SHURE                |
|    |   | Please wait while the InstallShield Wizard installs SW6000. This may take several minutes.    |
|    |   | Status:<br>Installing Microsoft ReportViewer 2012   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   | InstallShield   |
|    |   | < Back Next > Cance   |

| 10. | Click 'Finish' to complete the installation.   | ઝ SW6000 - InstallShield Wizard   | <b>x</b>    |
|-----|--|---|-------------|
|     | Shortcuts to the application have been created<br>at the 'Desktop', in the 'Start menu' and in the<br>'Startup folder' for automatic startup of the<br>applications. | IstalShield Wizard Completed<br>The InstalShield Wizard Completed<br>The InstalShield Wizard has successfully instaled SW6000.<br>Click Finish to exit the wizard.<br>In Show the Windows Installer log | <b>ξ</b> Ε΄ |

#### 4.2 'Advanced' Installation (multiple PC's)

The following installation procedure describes how to install the SW6000 Software on multiple PC's in designs as described in the section '3.2.2 Installation with Multiple PC's' Preparations before installation

Before you start the installation of the SW6000 Software Package you must ensure that the following preparations have been done:

- Ensure that you have LAN TCP/IP connection at the PC's. Assign a permanent or automatic IP address
- If you use more than one PC in the system Windows 7/Server 2012 please note that there are some built in Windows errors, which have to be corrected before running SW6000.

Refer to section '4.2.1 Windows Corrections'.

- Install touch screen driver if using touch screen for the CUA
- Disable the firewall as default. If it is necessary to enable the firewall please follow the instructions in the sections '4.2.2 Additional Firewall settings' and '4.2.3 Message Queuing settings'.

#### 4.2.1 Windows Corrections

If you use <u>more than one PC</u> in the system and are using Windows 7 or Server 2008/12 please note that there are some built in Windows errors, which have to be corrected before running SW6000. The next sections show the corrections to be made

- 1. Enable MSDTC to allow the network transaction. To do this, follow these steps:
  - a. Click Start.
  - b. In the **Search programs and files** text box, type **dcomcnfg.exe**, and then click **Enter**.
  - c. In the **Component Services** window, expand **Component Services**, expand **Computers**, expand **My Computer**, and then expand

### Distributed Transaction Coordinator.

- d. Right-click **Local DTC** and click **Properties**.
- e. In the **Local DTC Properties** dialog box, click on **Security** tab.
- f. Click to select the **Network DTC Access** check box.
- g. Under the **Transaction Manager Communication** group, click to select the **Allow Inbound** check box. To allow the distributed transaction to run on this computer from a remote computer.
- h. Under the **Transaction Manager Communication** group, click to select the **Allow Outbound** check box. To allow the distributed transaction to run on a remote computer from this computer.
- i. Under the Transaction Manager Communication group, click to select the No Authentication Required option.
- j. In the **Local DTC Properties** dialog box, click **OK**.
- 2 Configure Windows Firewall to include the MSDTC program as an exception. To do this, follow these steps:
  - a. Click Start.
  - b. In the **Search programs and files** text box, type **Firewall.cpl**, and then click Enter
  - c. In Windows Firewall dialog box, click Allow a program or feature through Windows Firewall.
  - d. In the Allowed Programs dialog box, click Allow another Program.... If button is not enabled then click Change Settings first
  - e. In the **Add a Program** dialog box, click the **Browse** button, and then locate the Msdtc.exe file. By default,

the file is stored in the **<Installation** drive>:\Windows\System32 folder.

- f. In the **Add a Program** dialog box, click **Add**.
- g. In the Allowed Programs dialog box, Select Microsoft Distributed

#### 4.2.2 Additional Firewall settings

Transaction Coordinator Service and check all check box's

h. In the **Allowed Programs** dialog box, click **OK**.

If the system shall run with firewall active the following settings must be done on all PC's in the system.



| 13. | In' Domain Profile' and 'Private profile' use the dropdown box to select 'Allow" for Inbound connections'. | V | Ŵ   |  | Windows Firewall with Advanced Security on Local Computer Pr |
|-----|--|---|---|--|--|
|     |  |   | State<br>Firewall state: On (recommended)<br>Inbound connections: Allow<br>Outbound connections: Allow (default)<br>Protected network connections: Customize<br>Settings<br>Specify settings that control Windows<br>Firewall behavior.<br>Logging<br>Specify logging |  |  |
|     |  |   | Specify bigging settings for<br>troubleshooting.     Customize       Learn more about these settings     OK   |  |  |

#### 4.2.3 Message Queuing settings

If the system shall run with firewall active the following setting must be done on all PC's in the system.

| 14. | Open 'Control Panel\All Control Panel   | ſ | E Computer Management  | 2 2 2 2 m |
|-----|---|---|--|-----------|
|     | Items\Administrative Tools\Computer<br>Management'.   |   | File Action View Help  |           |
|     |   |   | 🗢 🄿 📊 🗟 🛃  |           |
|     | Expand 'Services and Application' and right<br>click on 'Message Queuing' and select<br>'Properties'. |   | <ul> <li>Computer Management (Local</li> <li>System Tools         <ul> <li>Task Scheduler</li> <li>Event Viewer</li> <li>Shared Folders</li> <li>Local Users and Groups</li> <li>Performance</li> <li>Device Manager</li> </ul> </li> <li>Storage         <ul> <li>Storage</li> <li>Services and Applications</li> <li>Services</li> <li>WIL Control</li> <li>Management Querying</li> </ul> </li> </ul> | Name      |
|     |   |   | p 🛶 message Queuing  |           |

| 15. | Select the tab 'Server Security' and un-select<br>'Disable un-authenticated RPC calls' | Message Queuing Properties       Image To a security         General Storage       Server Security         Select server settings to enhance the security of your computer.         Enable hardened MSMQ mode to secure this computer on the         Internet. In this mode, only messages sent with HTTP/HTTPS format names will be delivered.         Enable secured remote receiving. In this mode, only computers         Internet in this computer.         Disable secured remote receiving. In this mode, only computers remotely from queues on this computer.         Disable un-authenticated RPC calls.         OK       Cancel |
|-----|--|--|
|     |  |  |

#### 4.2.4 Installing SW6000

| 16. | Download the SW6000 software from the Shure download web site.  |   | InstallShield Wizard SW6000 requires that the following requirements be installed on your computer prior to   |
|-----|---|---|---|
|     | Click on the Setup.exe in the 'SW6000<br>#Installation' folder in the SW6000 Software<br>package,                         |   | Installing this application. Lifek UK to begin installing these requirements:      Status Requirement Pending SW6000 Prerequisites Windows Installer 3.1 Pending SW6000 Prerequisites English. NET Framework 2.0 Pending SW6000 Prerequisites XP MSMQ Setup Core Pending SW6000 Prerequisites XP MSMQ Setup TriggersService |
|     | 'The install Shield Wizard' will automatically show a list of 'Prerequisites' required for running SW6000                 |   |   |
|     | Click 'Install' and continue clicking 'Install' until<br>you are asked if you want to install the SW6000<br>Applications. |   | Install Cancel  |
| 17. | After installing the 'Prerequisites', the setup<br>program is preparing the InstallShield wizard.                         | S | SW6000 - InstallShield Wizard  Preparing to Install  SW6000 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.  Extracting: SW6000.msi   |
|     |   |   | Cancel  |

| 18. | After installing the 'Prerequisites', the<br>installation wizard continues by installing the<br>SW6000 Applications<br>Click 'Next'   | By SW6000 - InstallShield Wizard      EHURE      Wekcome to the SW6000 Install Wizard      This Install Woard will allow you to install and modify SW6000. To     ordinue, dick Next.      WARNING: This program is protected by copyright law and international treaties.      Show the Installation manual  |
|-----|---|---|
| 19. | Accept the License Conditions and click 'Next'  | SW6000 - InstallShield Wizard         License Agreement         Please read the following license agreement carefully.  |
|     | <i>INFO:</i> The 'SW6000 Database' option has to be unselected when installing the SW6000 software on all other PC's in the system<br>Select only the 'SW6000 Database' on the PC, where the 'SQL Server 2008' has been installed | Software License Agreement         Please read the following terms and conditions carefully.         Use of the software provided with this agreement acknowledges that you have read this agreement, understand it and accept the terms of this agreement. If you do not agree to the terms of this agreement, do not use this software.         End-user License Agreement for SHURE Software         Important - read carefully         This SHURE End-User License Agreement ("EULA") is a legal agreement         I accept the terms in the license agreement         I accept the terms in the license agreement         I do not accept the terms in the license agreement         InstallShield |
| 20. | The installation gives two choices 'One PC'<br>installation and 'Advanced Installation'.<br>Select 'Advanced Installation' and click 'Next'   | SW6000 - InstallShield Wizard         Setup Type         Choose the setup type that best suits your needs.         Please select a setup type.         One PC         Following Applications will be installed by default:         CUI Central Unit Interface Application         CAA Conference Administrator Application         CUA Conference User Application         SW6000 Database         Advanced Installation         Choose which program features you want installed. Recommended for advanced users.         InstallShield  |

#### 21. CUI

<u>Select the CUI</u> if you are installing on the PC where you previous has made a "One PC" installation or you are making a new installation on a PC, where the SW6000 database shall be installed.

<u>Un-select the CUI</u> if you are installing CUA, CAA, CDA or ECA on another PC in a multi-PC system.

#### CAA, CUA and CDA

Select one or more of the following applications: CAA, CUA, CDA or ECA all depending on your system design.

#### ECA

Select the application ECA depending on your system design. Select the COM port, you want to use with the ECA.

#### SW6000 Database

<u>Select the SW6000 Database</u> if you want to add one or more additional databases to the PC/Server where the SQL Server 2008' has been installed or you are installing a PC/Server with a new database.

<u>Un-Select the 'SW6000 Database'</u> when installing on all other PC's in the system.

**INFO:** The 'SW 6000 Database' option has to be un-selected when installing the SW 6000 software, if a 'SQL Server 2008' has been installed on other PCs in the system

Select only the 'SW 6000 Database' on a PC, where the 'SQL Server 2008' has been installed

#### Select Default language

Select the default language only if you are making a new database installation

*IMPORTANT:* The default language can only be selected during installation and cannot be changed after the installation is completed

#### Autorun

Tick the applications, which has to start-up automatically (Autorun) every time the PC is started.

Click 'Next' Click 'Next'

| elect Applications and Default Language<br>Select which Applications to install  | SHURE  |
|--|--|
| Image: Autorun       Image: Cull Central Unit Interface Application         Image: Cull Central Unit Interface Application       Image: Cull Conference Administrator Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Image: Cull Conference Display Application       Image: Cull Conference Display Application         Imag | By default<br>The selected applications will be<br>installed.<br>Autorun enables applications to<br>be started at boot time.<br>Available COM Ports<br>3 |
| Default Database User: Login Succeded ! Test Recreate elect Default Language   | ECA COM Port<br>① 1 ② 2 ③ 3 ③ 4  |
| Current selection English (Unit  | red States) 🔹  |
| allShield  |  |

| 22. | If 'SW6000 Database' was selected in previous screen the 'Database Settings' will be shown.   | Database Settings   |
|-----|---|---|
|     | Database Engine   | Select database engine and select Databases to be installed.  |
|     | The database server installed together with<br>SW6000 is MS SQL Express. Select 'MS SQL<br>Server' is this type of database server is in use.<br>Databases  | Select type of database Engine you are using       Databases <ul> <li>MS SQL Express Database</li> <li>MS SQL Server</li> <li>SW6000-1</li> </ul> Database Authentication       SW6000-2 <ul> <li>Windows Authentication</li> <li>SQL Server Authentication</li> <li>SW6000-3</li> </ul>  |
|     | Select 'SW6000-1' as the database to be installed.  | Password sw6000-1   |
|     | <ul> <li><i>INFO:</i> The SW6000 system can install<br/>up to 4 databases in each database<br/>engine. The names of the databases<br/>are limited to 'SW6000-1', 'SW6000-2',<br/>'SW6000-3', and 'SW6000-4'.</li> <li>For most installations only the<br/>SW6000-1 database is needed.</li> <li><i>IMPORTANT:</i> Remember the name of<br/>the database(s) selected as well as the<br/>name of the computer as this<br/>information is needed when installing<br/>the SW 6000 Software on other PC's</li> </ul>   | Name of computer where database engine is located:       IPCCHNIELSEC03         InstallShield   |
|     | Click 'Next'  |   |
| 23. | Set Database Connection<br>This page sets the type of database connection<br>string to be used.<br><u>Create SQL Server Express connection</u> is defaul<br><u>Create SQL Server connection</u> shall be selected<br>if a 'MS SQL Server' is in use.<br><u>Create Database Connection's</u> might be checked<br>if the option to connect to multiple databases<br>shall be configured. This setting can be done<br>later in the CAA application.<br>Details on hall definition settings are present in<br>the section '7.6 Creating Database<br>Connections'. | Sw6000 - InstallShield Wizard         Set Database Connection         Select the method to set the database connection.         Select the method to set the database ConnectionString:            • Create SQL Server Express connection            • Create SQL Server connection            • Create SQL Server connection            • Create SQL Server connection            • Create Database Connection's         (only required if the user of this computer has access to 'Multiple Rooms')             InstallShield             InstallShield |
|     | Click 'Next' to continue.   |   |

| 24. | Click 'Install' to install the options selected   | SW6000 - InstallShield Wizard         Ready to Install the Program         The wizard is ready to begin installation.         Click Install to begin the installation.         If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.         InstallShield </th                     |
|-----|---|---|
| 25. | If you selected 'SW6000 Database' in item 16.   | ₩ SW6000 Installer Information  |
|     | If no SQL server is installed previously you will<br>be asked to confirm if you want the SQL server<br>2008 Express to be installed.<br>Click 'Yes' | SW6000 optionally uses Microsoft SQL Server 2008<br>Express SP1 (x86 & x64Wow). Would you like to install<br>it now?  |
| 26. | The SQL 2008 Server Express is now being installed.   | SW 6000         Installing SW 6000         The program features you selected are being installed.         Please wait while the InstallShield Wizard installs SW 6000. This may take several minutes.         Status:         Installing Microsoft SQL Server 2008 Express SP1 (x86 x64Wow)         Extracting Files         Extracting File: |
| 27. | The SW6000 Applications are then being installed  | SW6000 - InstallShield Wizard         Installing SW6000         The program features you selected are being installed.         Image: Status:         Status:         Installing Microsoft ReportViewer 2012  |

| 28  | The database(s) are created  | BW6000 - InstallShield Wizard   |
|-----|--|---|
| 20. | The database(s) are created  | Installing SW6000   |
|     |  | The program features you selected are being installed.  |
|     |  | Please wait while the InstallShield Wizard installs SW6000. This may take several minutes. Status: Installing Microsoft ReportViewer 2012 Creating database SW6000-3  |
|     |  | InstallShield   |
| 29. | If a connection string is present, you will be   | Test SQL Express database connection  |
|     | asked if you want to modify the connection string.   | The ConnectionString exists in the registry. Would you like to modify the ConnectionString?   |
|     | Click No if you do not want to change  |   |
|     | Click Yes if you want to modify the connection   | Yes No  |
|     | string or just want to check.  |   |
| 30. | If no 'Connection String' was present or you<br>selected 'Yes' to modify, the 'Test SQL Express<br>database connection' options are shown. | Settings for connection to SQL Express database         Name of computer where SQL Express is installed:         Default database instance name:         SW6000         Default database name:         SW6000-11         Default database name:         SW6000-11         Default database name:         SW6000-11         Default database name:         SW6000-11         Default database timeout         Database User:         SW6K11         Database User Password:         (reate connection string)         You are currently using this ConnectionString:         Provider-SQLOLEDB.1:Initial Catalog-SW6000-1:Data Source=BKK-CHN-LAP5\SW6000:uid-S         Test connection       Save Connection String         Close       Close |
|     | <u>'Default database name'</u> In the example the name is the default 'SW6000-1'<br>Other settings are normally not changed.               |   |

| 31. | Create, Test and Save Connection String:   | Reg Test SQL Express database connection  |
|-----|--|---|
|     | Click the 'Create default ConnectionString'<br>button to generate the connection string<br>according to the parameters provided.   | Settings for connection to SQL Express database         Name of computer where SQL Express is installed:         Default database instance name:         SW6000         Default database name:         SW6000-1   |
|     | The resulting 'ConnectionString' will be<br>displayed in the textbox at the bottom of the<br>window<br>Click 'Test connection'   | Default database timeou<br>Database User:<br>Database User Passwor<br>OK<br>SW6K11<br>HmAeC2005   |
|     | The message 'Connection succeeded' will show.  | You are currently using this connectionstring:       Provider=SQLOLEDB.1;Initial Catalog=SW6000-1;Data Source=BKK-CHN-LAP5\SW6000,uid=S       Test connection     Save Connection String       Close  |
|     | <b>Important:</b> This test must succeed. If<br>the test does not succeed then the<br>name of the computer or the default<br>database name might be wrong.                                   |   |
|     | Click 'Save ConnectionString'  |   |
|     | Click 'Close'  |   |
| 32. | Click 'Finish' to complete the installation.   | 😥 SW6000 - InstallShield Wizard   |
|     | Shortcuts to the application have now been<br>created at the 'Desktop', the 'Start menu' and in<br>the 'Startup folder' for automatic startup of the<br>application.                         | SHURE      InstallShield Wizard Completed      The InstallShield Wizard Completed      Detected Wizard Completed      Show the Windows Installer log      Show the Windows Installer log      (Bock      (Bock      (Bock      (Cancel      )   |
| 33. | If you have selected 'Create Database<br>Connection's' previously, the 'Create Database<br>Connection's' window will appear.<br>For details please refer to the 'User Manual<br>SW6000 CAA'. | Create Database Connections  Connection CUI Computer Name Database Name Connection String  Control String  Connection String |

### 5 After installation of SW6000 Software

5.1 Starting the CUI for the first time Cul Central Unit Interface 34. After the SW6000 has been installed a Connect via Serial Por shortcut to the CUI application have now been COM port: COM1 created at the 'Desktop' in the 'Start menu' Connect via Network and in the 'Startup folder' for automatic startup of the application. dis-cu6105-MAN dis-cu-jmi-5905 dis-cu-chn 001 218 032 When starting the CUI for the first time the Start when the computer starts CUI configuration windows open (Important: Set License Connect to Exit Run as Admin). Select. Important: The window will only list the CCU's if 'Apple - Bonjour for Connect via Network by selecting the Windows' is installed. If 'Bonjour is not appropriate CU in the list window. installed please refer to point 39 in the section 7.1 Advanced setting in the CUI' and use the CCU IP address to identify the CCU. Note: 'Connect vis Serial Port' is not supported in this software version. M Open 35. Click 'Set License' 🚱 🔾 🗢 🔳 Desktop 🕨 ✓ ← Search Desktop Q A browser window will open. Browse to the Organize 🔻 New folder 8 - 🗌 🔞 SW6000 license v5.5+ CU 001.218.032 2012-11-13.zip WinZip File 🔆 Favorites 'SW6000 License' file. Download Recent Places SW6000 License.xml 📃 Desktop Info: For more information about the Shortcuts SW 6000 License file, please refer to 🧮 Desktop 词 Libraries the section 'Licensing' Documents Music E Pictures Videos Carsten Haack Nielsen loces2 File name: DCS License CU 001.218.032.xn All files (\*.\*) <u>O</u>pen **▼** Cancel Click 'Yes' to insert the license file Central Unit Interface 32 Setting license will overwrite the existing CUI license (SW6000 License.xml).Do you want to set the license anyway? Yes No

| 36. | Click 'Connect to'  | Central Unit Interface  |                 |
|-----|---|---|-----------------|
|     | The CUI will now start connecting to the selected CU.   | Connect via Serial Pot COM port: COM1 COM Connect via Network   |                 |
|     | <b>Info:</b> The selections made are used next time the CUI is started, where the 'CUI Configuration window' will not open. | decu6105-MAN         decu2+05           decu6105-MAN         decu2+05           decu6105-MAN         decu2+05           decu3+05-5005         002/038/227           Advanced         Start when the computer starts |                 |
|     | If a new selection has to be made, the shortcut<br>'Configure CUI' in the Start menu must be used.                          | [Set License]   | Connect to Exit |
|     | For 'Advanced' option please refer to section '7.1<br>Advanced setting in the CUI'.   |   |                 |
|     |   |   |                 |
| 37. | When the CUI is started an Icon is visible in the taskbar.  | m   |                 |
|     | For details please refer to 'Advanced options in later section.   |   |                 |

### 6 Getting started

The system has now been installed successfully.

The following sections describes the necessary steps to get started. However please refer to the SW6000 User Manuals for a throughout description of how to use the SW6000 System.

- 6.1 Steps
  - Connect the CU 6105, CU 6110 or DIS-CCU Central Unit to the PC, where the CUI is installed using the TCP/IP ports
  - Turn on the CU/CCU with all units (Delegate Units, Chairman Units, AO units etc.) connected.
  - 3. Start the CU Interface Application (CUI).

If the CUI version is not compatible with the database you will be advised to start the CAA to automatically update the database. You will then have to restart the CUI.

When the CUI Application starts to communicate with the CU/CCU it will receive information for all units connected to the CU/CCU. The CUI Application will then create one seat in the Conference Units table for each Conference Unit and numbering the seats, starting at one and counting upwards.

*Hint:* To make is easier later to assign participants to seats and to make mimic diagrams the seats should be renumbered to give a more logical order.

| Co | nfe  | rence l  | Inits          |       |              |           |   |              |            |    |               |                |   |   |     |   |   |          |     |    |        |
|----|------|----------|----------------|-------|--------------|-----------|---|--------------|------------|----|---------------|----------------|---|---|-----|---|---|----------|-----|----|--------|
| -  |      |          |                |       | 7            |           |   |              |            |    |               |                |   |   |     |   |   |          |     |    |        |
| E  | igii | sn (Un   | ted St         | ates) |              |           |   |              |            |    |               |                |   |   |     |   |   |          |     |    |        |
| U  | Jnit | ts in Ro | oom #          |       |              |           |   |              |            |    |               |                |   |   |     |   |   |          |     |    |        |
| Г  | Т    | Room     | # Se           | at#   | Serial #     | Seat Type | _ | Use Serial # | Meeting Ro | le | Computer Name | UI on Computer |   | Ν | /ic | L | s | Runtime  | Ext | С  | Mic on |
|    | 1    | 1        | <del>•</del> 1 |       | 001.223.139  | CM unit t | - |              | Chairman   | -  | PCCHNIELSEC03 | Min. 1280x800  | • | 0 | •   | 0 | - |          |     | Cr |        |
|    | -    | 1        | <del>•</del> 2 |       | 001.223.101  | DM unit t | • |              | Delegate   | •  |               | Min. 1024x768  | • | 0 | -   | 0 | - | <b>V</b> |     | Cr |        |
|    |      | 1        | <b>-</b> 3     |       | 001.195.040A | DM unit t | • |              | Delegate   | •  |               | Min. 1024x768  | - | 0 | -   | 0 | - |          |     | Cr |        |
|    | -    | 1        | <del>•</del> 4 |       | 001.195.040B | DM unit t | - |              | Delegate   | -  |               | Min. 1024x768  | - | 0 | -   | 0 | - |          |     | Cr |        |
|    |      | 1        | <b>-</b> 5     |       | 000.106.096  | DM unit t | • |              | Delegate   | -  |               | Min. 1024x768  | - | 0 | -   | 0 | - | <b>V</b> |     | Cr |        |

Figure 6.1-A List of units

4. Start the Conference Administration Application (CAA). If needed the Database will be upgraded automatically.

# Important: The first time the CAA is started the application has to be started as 'Run as Admin.

5. Select the Meeting Role screen from the "Setup/Meeting Role" and create additional Meeting Roles (e.g. Vice Chairman) to be used when creating list of Participants and to be used as defaults for the seats when no one is logged in. The Meeting Roles created during installation can either be modified or deleted (the Chairman and Delegate Meeting Role can be modified but not deleted).

The Meeting Role determines the individual conference units settings, screens, buttons and functions that will be available when a participant is logged into the CUA.

A Meeting Role is also associated with each seat to determine the settings that must apply as default when no one is logged in. 6. Select the

"Setup/Equipment/Conference Units" and type in the computer names for each of the seats which shall be paired with a PC on the network running the CUA. Assign a Meeting Role to each of the seats to be used as a default when no one is logged in.

| M Cor | nfei | rence Unit | is        |              |            |              |              |               |                 |                     |     |           |     |    |        |
|-------|------|------------|-----------|--------------|------------|--------------|--------------|---------------|-----------------|---------------------|-----|-----------|-----|----|--------|
| En    | glis | sh (United | l States) |              |            |              |              |               |                 |                     |     |           |     |    |        |
| U     | Jnit | s in Roon  | n#        |              |            |              |              |               |                 |                     |     |           |     |    |        |
|       |      | D          | Co of H   | 0            | Cont Turns | Use Carial # | Mastina Dala | Computer Name | III on Computer |                     | 1.0 | Durations | Eut | 6  |        |
|       |      | ROOM #     | Seat #    | Serial #     | Seat Type  | Use Senal #  | Meeting Role | Computer Name | UI on Computer  | MIC                 | LS  | Runume    | EXt | C  | MIC ON |
|       | 1    | 1 🚽        | 1         | 001.223.139  | CM unit t  | -            | Chairman     | PCCHNIELSEC03 | Min. 1280x800   | - 0 -               | 0 - |           |     | Cr |        |
|       | 1    | 1 👻        | 2         | 001.223.101  | DM unit t  | •            | Secretary    |               | Min. 1024x768   | <b>▼</b> 0 <b>▼</b> | 0 - |           |     | Cr |        |
| 1     | - 1  | 1 🔻        | 3         | 001.195.040A | DM unit t  | •            | VIP          | •             | Min. 1024x768   | <b>v</b> 0 <b>v</b> | 0 - |           |     | Cr |        |
|       | 1    | 1 🔫        | 4         | 001.195.040B | DM unit t  | •            | Delegate     | •             | Min. 1024x768   | <b>v</b> 0 <b>v</b> | 0 - |           |     | Cr |        |
|       | 1    | 1 👻        | 5         | 000 106 096  | DM unit t  | <b>•</b>     | Delegate     | -             | Min 1024x768    | <b>T</b> 0 <b>T</b> | 0 - |           |     | Cr |        |



- 7. Select the "Participants" screen
  - a. Type in information for all the Participants who shall use the system.
  - b. Select the default Meeting Role for the participant.
  - c. Enter additional information required for participants in up to four customisable fields.
- 8. Select the

"Setup/Configuration/Participant List Configuration" and configure the width and appearance of the various fields on the participant lists.

9. Select the

"Setup/Language/Languages" and create additional system languages if needed (in addition to the Default System language created during installation).

- 10. Select the "Setup/Language/Labels"
  - a. Import labels for the Default System language if different from English if labels for the language exist in the SW6000 Installation package. If not translations for all labels has to be created
  - b. Create translations for the languages which are added. If some or all labels are not translated then the default language translation (English) for a particular label will be used.
  - c. If English is the Default System Language chose the English tab and select label 40 and change "Meeting Room" to a description, which applied to your installation

| bels  |                   |             |           |             |              |            |          |       |   |  |
|-------|-------------------|-------------|-----------|-------------|--------------|------------|----------|-------|---|--|
|       |                   |             |           |             |              |            |          |       |   |  |
| nglis | h (United States) | عربي Arabic | Chinese   | Danish      | Georgian     | Russian    | Spanish  | Welsh |   |  |
| Labe  | el Group          | All group:  | 5         |             |              | -          |          |       |   |  |
| Sear  | rch               | 40          |           |             |              |            |          |       |   |  |
|       | Label Group       | Meet        | Factory   | Labels      |              |            |          |       | Labels for Selected Language                  |  |
| 1     | Commonly Used E   | Bu 40       | Meeting F | Room        |              |            |          |       | Committe Room 45                              |  |
|       | CAAMessages       | 951         | Message   | text mus    | t not exceed | d 4000 cha | racters. |       | Message text must not exceed 4000 characters. |  |
|       | CAA Speech Time   | C 6937      | Participa | nts All - 4 | ) sec        |            |          |       | Participants All - 40 sec                     |  |

Figure 6.1-C Label for room description

 Select the Mimic screen from the "Setup/Configuration/Mimic Configuration" and create a new Mimic diagram.

> Creating a Mimic diagram importing a bitmap showing the meeting room as a background image and then to import all seats onto the Mimic diagram and position the coloured dots representing a microphone or seat.

- 12. Select the "Message" screen and create messages.
- Select "Setup/Configurations/CDA Configuration and change (if needed) Font Size, Colours etc. for the various CDA screens available.
- 14. Select "Meeting"
  - a. Add a meeting

- b. Fill in a proper name for the meeting.
- c. If chip cards or login using code are not in use select "Meeting Mode: Prepared Participant List".
- d. Select the preferable "Speak Mode", "Voting Parameters" (both can be changed at any time during the meeting).
- e. Change Start and Stop date if needed.
- f. Click update
- 15. Select "Participant List
  - a. Select the Participant who is to be placed in Seat 1 and click
     >>

| Partic | ipant Se  | at Tal | ble      | a manufacture of |         |         | -        |       |       | -     |       |            | - |        |      |                      |
|--------|-----------|--------|----------|------------------|---------|---------|----------|-------|-------|-------|-------|------------|---|--------|------|----------------------|
| Detail | s         |        |          |                  |         |         |          |       |       |       |       |            |   |        |      |                      |
| Filter | 1         | lame   | е        |                  |         | 1 User  | Table    |       |       |       | 2     | User Table |   |        |      | Group                |
|        |           |        |          |                  |         |         |          |       |       |       |       | 7          |   |        |      |                      |
| Engli  | ish (Unit | ed S   | tates)   | متريي Arabic     | Chinese | Danish  | Georgian | Russi | an Sp | anish | Nelsh |            |   |        |      |                      |
|        | Meet      | . Fi   | rst/Las  | t Name           |         | ▲ Title |          | 1 Us  | 2 Us  | 3 Us  | . 4   |            |   | Seat # | Meet | First/Last Name      |
|        | 342       | 2 Jol  | hn Smi   | th               |         |         |          |       |       |       |       | >>         |   | 1      | 340  | Frank Summer         |
|        | 343       | 3 Ju   | dy Flick | :                |         |         |          |       |       |       |       |            |   | 2      | 350  | Hansen Jensen Jensen |
|        | 348       | i Jul  | lia Frar | nk               |         | Sales   | Director |       |       |       |       | <<         | + | 3      | 339  | Jane Doe             |
|        | 349       | ) Lo   | ra Holla | and              |         |         |          |       |       |       |       |            |   |        |      |                      |
|        | 348       | B Mic  | chael D  | e Gardia         |         |         |          | Dem   |       |       |       |            |   |        |      |                      |
|        | 156       | i Na   | anna W   | estin            |         | Mrs.    |          |       |       |       |       |            |   |        |      |                      |
|        | 24/       |        | tor Hoc  | tinge            |         |         |          |       |       |       |       |            |   |        |      |                      |



- b. Select the Participant who is to be placed in Seat 2 and click >>. Continue until all participants are placed in the seats
- c. Click "Participants Table -> Hide"

| Participants Table |             |
|--------------------|-------------|
| Show               | Show Active |
| Hide               | Show All    |

Figure 6.1-E 'Hide' Participant database

d. Select for each participant the Meeting Role, which shall apply for the participant for this meeting.

| Pa | artic | ipant Seat | Table     |               | 100       |        | -        |         |        |      |      | -    |              |          |        |                   |
|----|-------|------------|-----------|---------------|-----------|--------|----------|---------|--------|------|------|------|--------------|----------|--------|-------------------|
| )e | etail | s          |           |               |           |        |          |         |        |      |      |      |              |          |        |                   |
| E  | ngli  | sh (Unite  | d States) | متريي Arabic  | Chinese   | Danish | Georgian | Russian | Spanis | Wels | h    |      |              |          |        |                   |
| ſ  |       | Seat #     | Meet      | First/Last Na | me        |        | Title    |         | 1 Us   | 2 Us | 3 Us | 4 Us | Meeting Role | Use Seco | ond. M | Secondary Meetin. |
| ľ  |       | 1          | 340       | Frank Summe   | r         |        |          |         |        |      |      |      | Delegate     | - 🗆      |        | Chairman          |
| I  |       | 2          | 350       | Hansen Jense  | en Jensen |        |          |         |        |      |      |      | Delegate     | -        | ]      |                   |
| 1  | Þ     | 3          | 339       | Jane Doe      |           |        |          |         |        |      |      |      | Delegate,    | - 🗸      |        | Chairman          |

Figure 6.1-F Change Meeting Role in Participant Seat Table

- e. Click Update and close the Participant Seat Table
- 16. Select Agenda and fill in the Agenda details for the Meeting
- 17. Select Options and select the default options for this meeting
- 18. Click Update

**Hint:** If the meeting created is supposed to be the default for future meetings then click "Save as Default"

The system is now ready for use, however it is strongly recommended to read the User Manuals for the Applications.

## 7 Advanced Settings

#### 7.1 Advanced setting in the CUI

| 38. | When activating the shortcut 'Configure CUI' in  | Central Unit Interface  |   |
|-----|--|-------------------------|---|
|     | the Start menu the CUI interface opens.  | Connect to CU           | Dofaut  |
|     | When 'Advanced' it ticked more configuration   | About                   | Configuration Name Default  |
|     | options in three tabs will be available.   |                         | CU Connection Database Options  |
|     | CII Connection   |                         | Connect via Serial Port   |
|     |  |                         | COM port: COM1  |
|     | <u>Configuration Name</u> Different CUI configurations<br>can be made. If a configuration is Added, a<br>shortcut is created on the desktop with the<br>name of the configuration. |                         | Connect via Network     Connect via Network     de-cu/E105-MAN     de-cu-chn     de-cu-jmi-5905     002.150.254     001.218.032     002.038.227 |
|     | Hostname The hostname or IP address can be typed into this field to create a connection, where the CU is not turned on.  | Advanced<br>Set License | Hostname: 10.0.2.60 Add Delete Update Cancel Connect to Ext   |
| 39. | Database   | Central Unit Interface  |   |
|     | CUI connections to different databases can be setup.   | Connect to CU<br>About  | Default     10.02.60  |
|     | Click (Add) and give the new configuration of  |                         | CU Connection Database Options  |
|     | Click Add and give the new configuration a   |                         | MS SQL Express     MS SQL Server  |
|     | name and make the settings as needed. Click  |                         | Settings for connection to SQL Server database Name of computer where SQL Server is installed; BKK-CHN-LAP5                                     |
|     | 'Update' to save the new configuration.  |                         | Default database instance name: SW6000  |
|     | Previous configurations can be changed by  |                         | Default database name: SW6000-1 Default database timeout: 25  |
|     | colocting the configuration in the ten window  |                         | Database User: SW6K11   |
|     | there making the charges and click (Indete)  |                         | Database User Password: HmAeC2005   |
|     | then making the changes and click "update"   |                         | You are currently using this Connection String:   |
|     |  |                         | Provide=SQLOLEDB.1;httal Catalog=SW6000-1;Data Source=BRKCHN-LAPS/SW6000,ud=SW6P<br>Test connection   |
|     |  | Set Users               |   |
|     |  | Set Doerise             | Nala Delete Opdate Carlos Corriect to Dat   |
| 40. | Options  | Central Unit Interface  |   |
|     | The following options are available:   | Connect to CU           | 10.0 2.60   |
|     |  | About                   |   |
|     | • Start when the computer starts   |                         | Configuration Name 10.0.2.50  |
|     | <ul> <li>Show the CUI window at startup</li> </ul>   |                         | Stat when the computer starts   |
|     | CUI creates log  |                         | Show the CUI window at startup CUI creates log files  |
|     | A text field is available for additional ontions   |                         | Other CUI options   |
|     | A text field is available for additional options   |                         |   |
|     |  |                         |   |
|     |  | Set License             | Add Delete Update Cancel Connect to Exit  |

| 41. | When the CUI is started an Icon is visible<br>in the taskbar.<br>Right-clicking the icon brings the option menu. | Display<br>About<br>Exit<br>10.0.2.60  |
|-----|--|--|
| 42. | <b>Display</b><br>Show messages to/from the central unit   | Central Unit Interface - 10.0.2.60         PorSuite         Hole         Eat           2 Show Ust         6g10 file         Form dont         Form dont         Form dont           16 47 04 [252] [163][20][15][200][73][154][47][213][20][55]         Form dont         Form dont         Form dont           16 47 04 [252] [163][20][15][200][73][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][200][75][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][154][200][75][154][154][200][75][154][154][200][75][154][154][200][75][155][154][200][75][154][200][75][154][200][75][154][200][75][156][75][156][75][154][75][154][75][154][75][154][75][154][75][75][154][75][75][75][154][75][75][75][75][75][75][75][75][75][75 |
| 43. | About<br>Shows if the 'License File' is verified and<br>connection details                                       | About     SHURE:     About     CUI Central Unit Interface     SW 6000 Conference Management Software     Version 6.5.13     Coyright © 1999-2017 SHURE. All rights reserved.     www.shure.com     License file verified     Connection 122203395     Warning: This computer program is protected by copyright law and     international treaties. Unauthorized reproduction or distribution of this     program or part of it, may result in severe civil and criminal penalties.   |

#### 7.1.1 Command line parameters for the CUI

Behaviours for the CUI can in addition to the options in the CUI Interface setup also be applied as a command line parameter in the CUI shortcut. The options are:

| Central Unit Interface   |
|--|
|  |
| Available runtime parameters:  |
| -COMx  |
| Select COM port x for serial port.   |
| -CUHOST <hostname.local ipv4 [ipv6]>:<port><br/>Set hostname or IP address of CU. Port number is optional. Enclose an<br/>IPv6 address in brackets if also specifying a port number.</port></hostname.local ipv4 [ipv6]> |
| -W<br>Shows the CUI Window at startup.   |
| -ALLMICOFF<br>ECA will send specific command each time all microphones are<br>switched off.  |
| -CREATELOGS<br>CUI creates log files - to be used when DIS needs information for<br>troubleshooting.   |
| -CONNECTSTRING " <connection string="">"<br/>Specifies the database connection for the CUI - overrides setting in<br/>registry.</connection>   |
| -POOLTIME x<br>Advanced setting (x is value in milliseconds) which can be used to<br>enhance performance in systems with a large number of CUAs.   |
| -CONFIGURE<br>Shows the CUI Configuration Windows at startup. If used in<br>combination with the -config parameter, the -config parameter is<br>ignored.   |
| -CONFIG < config_name><br>Specifies the config file the CUI should use.  |
| ОК   |

#### 7.2 Advanced settings CUA, CDA and CAA

7.2.1 Command line parameters for the CUA



| -CONNECTSTRING "connectstring" | Use this parameter to specify the database the CUI shall connect to. An example of a valid 'connectstring' entry is   |
|--------------------------------|---|
|                                | Provider=SQLOLEDB.1;Initial Catalog=SW6000-1;Data<br>Source=bkk-chn-<br>lap\SW6000;uid=SW6K11;password=HmAeC2005;Timeout=<br>30;  |
| -DISABLEAUTOHIDE               | Will not hide taskbar   |
| -CUI "PC-name"                 | If this parameter is applied the CUA or CDA will automatic change connection to the database the CUI on the PC specified in the parameter is starting up on.  |
| -USERIDxxx                     | When RUNTIME login is enabled, the User ID for the user of the PC/Laptop can be specified. The User Id is to be found in 'CAA/Tables/Participants'.   |
| -CONSOLExxx                    | Used when the CUA is running on a terminal server to<br>specify the client (console) number. In<br>'CAA/Setup/Equipment/Conference Units' the entry will be in<br>the following format: SERVERNAME~CONSOLExxx like in the<br>following example: FTATS10~186 |
| -LOWRESOLUTION                 | CUA starts up in Layout 1 with min. resolution of 1024 x 768  |
| -MEDIUMSHORTRESOLUTION         | CUA starts up in Layout 2 with min. resolution of 1280 x 768  |
| -MEDIUMRESOLUTION              | CUA starts up in Layout 3 with min. resolution of 1280 x 800  |
| -HIGHRESOLUTION                | CUA starts up in Layout 4 with min. resolution of 1920 x 1080   |

#### **7.2.2** Command line parameters for the CDA The CDA has a number of command line parameters.

| CDA Conference Display Application   | x  |
|--|----|
|  |    |
| CDA Conference Display Application<br>Copyright © 1999-2016  |    |
| Usage:   |    |
| -?: Show help text and exit<br>-anim: Override general animations  |    |
| Parameter is a comma-separated list of animation types, prefixed with '+' or '-<br>Types: 'votetimer'  | '  |
| Default: all '+'<br>-annid: Set instance ID  |    |
| Parameter is instance ID: 1N or 0 (automatic)  |    |
| Default: 0<br>-hasenort: Base TCP port for CDA to listen to CUI updates  |    |
| Parameter is port number: 1-1022 or 1025-49150   |    |
| Default: 6004  |    |
| -disableautohide: Do not remove the Windows taskbar  |    |
| -disabletextscroll: Do not scroll overflowing texts  |    |
| -gridlines: Show grid lines for all 'Screen' tags in custom XML  |    |
| -ip: Set IP address CDA should connect to  |    |
| Parameter: IP address  |    |
| Note: setting this will disable broadcast lookup<br>-labelid: Prepend label ID to each label fetched from the database                           |    |
| -listanim: Override list item animations   |    |
| Parameter is a comma-separated list of animation types, prefixed with '+' or '-  | ·  |
| Default: all '+'   |    |
| -localmachinename: Disable Terminal Server sessions  |    |
| -mode: Connection mode   |    |
| Offline - No connection is established, the CDA can execute scripts  |    |
| Cui - WCF connection with VSS (CUI) is used  |    |
| -pulsation: Override pulsation mode for all pulsating labels Parameter is mode:  |    |
| None - No pulsation at all   |    |
| Pulse - Smooth change between a lighter and a darker colours<br>Toggle - Sudden change between a lighter and a darker colours                    |    |
| -script: Execute the given script (must be in offline mode)  |    |
| -trace: Add traces to the log  |    |
| Parameter is a comma-separated list of trace areas (no spaces)<br>Fach area is defined as '-area' '+area' or have a value after it: 'area=value' |    |
| Areas are:   |    |
| Registration - Trace control registration  |    |
| ListActivity - Trace list animation activity<br>Screen - Trace screen changing activity and Custom XML screens                                   |    |
| Layout - Trace list layout   |    |
| Page - Trace pages layout  |    |
| Mathconv - frace internal formula calculations tracing by providing a part o   | f  |
| a formula; several can be provided with repeated flag; if formula contains spaces  | i, |
| embrace it in " for Windows' sake; if formula contains commas, embrace it in " to<br>narser's cake   | or |
| Script - Regulates script output in offline mode   |    |
| Value is a plus-separated list of numbers or named, e.g. '4+8+Split' or a  |    |
| question mark : for help   |    |
|  |    |
| OK   | (  |
|  |    |

7.2.3 Command line parameters for the CAA

-CONNECTSTRING "connectstring" Use this parameter to specify the database the CUI shall connect to. An example of a valid 'connectstring' entry is Provider=SQLOLEDB.1; Initial Catalog=SW6000-1; Data

Source=bkk-chnlap\SW6000; uid=SW6K11; password=HmAeC2005; Timeout= 30;

-LABELID

Include label numbers in both the CAA and in the reports

#### 7.3 **Configuring the ECA**

| 44. | After the ECA has been installed, the ECA shortcut is placed on the Desktop and in the start folder.  |  | External<br>Control<br>Application  |
|-----|---|--|---|
| 45. | Click the 'ECA Interface' shortcut on the desktop   |  |   |
| 46. | When starting the 'ECA' the following<br>window appears:<br>The COM ports, which are configured, will<br>be highlighted.<br>Insert the Name of the Computer, where<br>the database is installed<br>Insert the 'Default Database name'<br>Click 'Save' | EX Port Parameters Setting         COM:       COM1         DB Connection       SQL Express / MSDE         SQL Express / MSDE       SQL Server         Name of computer where the database is installed         Default database instance name         Default database name         Default database timeout         Database User         Database User Password         Com Port:         Baud Rate       115200         Parity       None         Data Bit       8         Stop Bit       1 | bkk-chn-lap         SW6000         SW6000-1         30         SW6K11         HmAeC2005 |
|     |   | Test Save  | Close Cancel  |

- 7.3.1 Command line parameters for the ECA
- -W Show a communication window when the ECA is started. Don't use this parameter in normal use.
- -COMx Specifies the COM port to use. COM1 to COM4 are valid entries. When the COM port is specified, the 'Select COM port' popup is disabled.
- -STARTUPDELAYx Specifies a delay that the application will wait before initializing completely. The delay x, is given in milliseconds. This is useful if the ECA shortcut is placed in the Startup folder in windows, giving windows time to start services related to SQL, before the ECA starts communicating with the SQL server.
- -DELAYxx Please refer to 'User Manual SW 6232 ECA' for details.

#### 7.4 Installing the CP 6001 Chip Card Programmer

| The CP 6001 Chip Card programmer is used | cards. To install the programmer follow the |
|--|---|
| for programming and reading DIS chip     | instructions:                               |

| 47. | Connect the programmer to an available  | Found New Hardware Wiz | ard   |
|-----|---|------------------------|---|
|     | USB port on the PC, where a CAA application is installed.   |                        | Welcome to the Found New<br>Hardware Wizard   |
|     | Your windows operating system will<br>automatically detect the CP 6001 by<br>showing the 'Found New Hardware Wizard'. |                        | Windows will search for current and updated software by<br>looking on your computer, on the hardware installation CD, or on<br>the Windows Update Web site (with your permission).<br>Read our privacy policy |
|     | Click 'No, not this time' to continue.  |                        | Can Windows connect to Windows Update to search for<br>software?  |
|     | Browse to folder "\SW6000<br>Accessories\Driver for DCS 600x Chip card<br>programmers" and select the folder with the |                        | <ul> <li>○ Yes, now and every time I connect a device</li> <li>○ No, not this time</li> </ul>   |
|     | appropriate driver and install the driver.  |                        | Click Next to continue.   |
|     |   |                        | <back next=""> Cancel</back>  |
|     |   |                        |   |
| 48. | The driver has been installed and the CP  | Found New Hardware Wiz | zard  |
| 48. | The driver has been installed and the CP<br>6001 Chip Card Programmer is now ready to<br>use.                         | Found New Hardware Wiz | Completing the Found New<br>Hardware Wizard<br>The wizard has finished installing the software for:<br>ACS USB Smart Card Reader  |

#### 7.5 Customer Logo

The Shure logo in the CUA application can be exchanged with a customer logo.

Create a logo in PNG format with an invisible background.

The image size shall be 214x162 pixels

Edit the following entry in the prjCUA.exe.config file located in the CUA executable folder:

#### 7.6 Creating Database Connections

If your CUA or CAA application on the PC shall have access to more databases you must check the checkbox 'Create Hall Definitions' when prompted during installation of the CUA, CAA.

During the installation of SW6000 software, if the 'Create Hall Definitions' checkbox is selected, it is time to set the hall definitions, the following window will appear.

|   | Location   | CUI Computer Name | Database Name | Connection String  |
|---|------------|-------------------|---------------|--|
| • | Meeting    | PC1               | SW6000-1      | Provider=SQLOLED8.1,Initial Catalog=SW6000-1;Data Source=BKK-CHM |
|   | Meeting Ro | PC2               | SW6000-2      | Provider=SQLOLEDB 1;Initial Catalog=SW6000-2;Data Source=BKK-CHM |
|   | Meeting Ro | PC3               | SW6000-3      | Provider=SQLOLEDB.1:Initial Catalog=SW6000-3:Data Source=BKK-CHM |
|   | Meeting Ro | PC4               | SW6000-4      | Provider=SQLOLEDB.1:Initial Catalog=SW6000-4:Data Source=BKK-CHN |
| ٠ |            |                   |               |  |
|   |            |                   |               |  |
|   |            |                   |               |  |

Figure 7.6-A Create Database Connection

Inside the window there is a grid with 4 columns:

- **Location** A description of the location of the computer, where the database is installed.
- **CUI Computer Name** The name of the computer, where the CUI is installed (and database).
- **Database Name** A name identifying the database for the user.
- **ConnectionString** The string, which the CU Interface uses to connect to the specified database. Pressing the 'Create ConnectionString' button at the bottom of the window creates the ConnectionString.

<setting name="CustomLogoFile" serializeAs="String">

<value>xxxxx.png</value>

</setting>

The value can include drive and folder name.

There are 6 buttons at the bottom of the window.

- 1. 'Delete' button will delete the current row in the grid.
- 2. 'Save' button will save all row present in the grid to Windows registry.
- 'Cancel' button will cancel any changes made to the Database Connections.
- 4. 'Close' button will close the window.
- 5. Create ConnectionString' button is used to create a ConnectionString for the current row on the grid. When this button is pressed, a new window 'Figure 7.6-B Generate Connection String' pops up.
  - Data Source Type Select if the database is SQL Express or SQL.
  - b. Name of the computer where SQL Server is installed - Insert the name of the Computer running the CUI and database



Figure 7.6-B Generate Connection String

- c. **Default database instance name** The default value is SW6000
- d. **Default database name** The Database Name is the name of the database we wish to connect. The names are limited to SW6000-1, SW6000-2, SW6000-3, and SW6000-4.
- e. **Default database time out** The default database timeout is the timeout value for the connection established
- f. **Database user** Default value used during installation of SW6000
- g. Database user password
   Note if the database is MDSE
   then the password has to be
   changed to HmAeC2k. For SQL
   2008 Server the password is
   HmAeC2005

- i. When the selections has been made click 'Make ConnectionString'.to create the connection string. Use the 'Test Connection' button to test the connection string.
- ii. Close the window and proceed filling in information and create connection string for all the connections.
- h. Click 'Make connection string' to generate the connection string.
- i. 'Test Connection' button will validate the Connection String created
- j. Click 'Close' button to close the window.

'Test Connection' button will validate whether the 'Connection String' on the current row in the grid can be used to successfully connect to the database.

### 8 Upgrading from previous versions

#### 8.1 Upgrade

| 49. | Backup the Database(s) using 'SW6000 Backup Utility'.   |   |
|-----|---|---|
| 50. | On each PC run the SW6000 Installation and<br>select Advanced Installation and select the<br>Applications, which are installed (CUI, CUA,<br>CAA, ECA and/or CDA) and have to be<br>upgraded. | <i>Important:</i> An installed database is<br>never 'overwritten' during an upgrade<br>even if it is selected to be installed |
|     | Do not select 'SW6000 Database'.  |   |
|     |   |   |
| 51. | If the CUI is started after an upgrade of the Software a message, that the database shall be upgraded might appear.   | Central Unit Interface  |
| 51. | If the CUI is started after an upgrade of the<br>Software a message, that the database shall be<br>upgraded might appear.<br>Click OK to close the message                                    | Central Unit Interface  |
| 51. | If the CUI is started after an upgrade of the<br>Software a message, that the database shall be<br>upgraded might appear.<br>Click OK to close the message<br>Close the CUI                   | Central Unit Interface  |

| 52. | Start the CAA  | Conference Administrator Application             |
|-----|--|--|
|     | Accept to upgrade the database                       |  |
|     | Click OK to close the message and the CAA will start | Upgrade of database to version 5.8.0.0 succeeded |
|     | Start the CUI  | ОК   |

#### 8.2 Upgrading from MSDE Database Server

If you have a previous SW6000 version already installed using the MSDE Database Server, you can upgrade as follows.

| 53.               | Backup the Database(s) using 'SW6000 Backup Utility'.   |
|-------------------|---|
| 54.               | Remove the old installation using "Control Panel - Add or Remove Programs" in the following order:  |
|                   | SW6000  |
|                   | MSDE Installation   |
| 55.               | Install the applications as explained in the section "Software Installation".   |
| 56.               | Restore the Database using 'SW6000 Backup Utility'.   |
| <b>F7</b>         |   |
| 57.               | Start the CAA.  |
| 57.               | Start the CAA.<br>You will be prompted to upgrade the database when the CAA is started the first time after<br>the installation. Accept this and the database will automatically be upgraded.   |
| 57.               | Start the CAA.<br>You will be prompted to upgrade the database when the CAA is started the first time after<br>the installation. Accept this and the database will automatically be upgraded.<br>Click 'Yes'  |
| 57.               | Start the CAA.<br>You will be prompted to upgrade the database when the CAA is started the first time after<br>the installation. Accept this and the database will automatically be upgraded.<br>Click 'Yes'<br>The upgrade is now completed.   |
| 57.               | Start the CAA.<br>You will be prompted to upgrade the database when the CAA is started the first time after<br>the installation. Accept this and the database will automatically be upgraded.<br>Click 'Yes'<br>The upgrade is now completed.<br>Click 'OK'.  |
| 57.<br>58.<br>59. | Start the CAA.<br>You will be prompted to upgrade the database when the CAA is started the first time after<br>the installation. Accept this and the database will automatically be upgraded.<br>Click 'Yes'<br>The upgrade is now completed.<br>Click 'OK'.<br>Insert a new SW6000 License file as explained in the section "License File" |

#### 8.3 Upgrading from SQL Express 2005/2008 Express to SQL Express 2014

If you have a previous SW6000 version already installed using the SQL 2005 Server Express and want to use the SQL 2008 Server Express, you can upgrade as follows

| 61. | Backup the Database(s) using 'SW6000 Backup Utility'.                                |
|-----|--|
| 62. | Double-click the 'setup.exe' in the SW6000 Installation folder and select 'Install'. |
|     | Select the 'Advanced Installation'.  |
|     | Select 'Remove All' to remove the database   |
|     | Accept to delete all SW6000 databases  |
|     | Enter 'sa' in the Name field and 'sw6000-1' in the password field.                   |
|     | Cancel the remaining installation and Finish.  |

|     | Optionally, it is possible to remove the database using SQL Server Management Studio         |
|-----|--|
|     | Express, however this is not supported by Shure.   |
|     |  |
| 63. | Remove the old installation using "Control Panel - Add or Remove Programs" in the            |
|     | following order:   |
|     |  |
|     | 1. SW6000  |
|     | 2 SOL 2005/2008 Server Express   |
|     |  |
| 64. | Install the applications as explained in the section '4.1 'One PC' Installation or first     |
|     | installation in a multi-PC system'.  |
|     | 5  |
| 65. | Restore the Database using 'SW6000 Backup Utility'.  |
|     |  |
|     |  |
| 66. | Start the CAA.   |
|     | You will be prompted to upgrade the database when the CAA is started the first time after    |
|     | the installation. Accent this and the database will automatically be ungraded                |
|     | the installation. Accept this and the database will adtomatically be upgraded.               |
|     | Click 'Yes'.   |
| 67  | The upgrade is now completed   |
| 07. | The upgrade is now completed.  |
|     | Click 'OK'   |
| 68  | Undate other PCs in the system however do not install the SOL Server 2008 Express on         |
| 00. | opuate other i os in the system nowever up not install the <b>SQL Server 2000 Express</b> of |
|     |  |
|     |  |

### 9 Un-installing

Normally you will not need to un-install the SQL server however if an un-install is

#### 9.1 Un-install SW6000 Applications

The SW6000 Applications can be un-installed using the windows 'Control Panel' and selecting 'Add or Remove programs'. required follow the below instruction carefully:

The name of the installation is 'SW6000'.

#### 9.2 Un-install SW6000 Databases

When the databases (SW6000-1, SW6000-2, SW6000-3 or SW6000-4) has been installed using the SW6000 Setup, the databases will not be removed, when removing the

SW6000 Application using 'Add or Remove programs'.

The Databases are removed in the following way.

| 70. | Run the SW6000 Setup program and select<br>'Advanced Installation'. | Select Applications and Default Language<br>Select which Applications to install   |  |
|-----|---|--|--|
|     | Click 'Remove All'  | Install/Autorun         Install/Autorun         Image: Current Control Unit Interface Application         Image: Current Control Application         Image: Current Control Application         Image: Current Selection         Image: Current Selection | By default<br>The selected applications will be<br>installed.<br>Autorun enables applications to<br>be started at boot time.<br>Available COM Ports<br>3<br>ECA COM Port<br>③ 1 2 3 4<br>ed States) •<br>Next > Cancel |

| 71. | You will be asked to enter Database<br>Administrator credentials.  | SW6000 - InstallShield Wizard X          |
|-----|--|--|
|     | Enter 'sa' in the Name field and "sw6000-1" in the Password field  | Enter Database Administrator credentials |
|     | Click 'Next'<br>The SW6000 Database is now removed.  | Name: I                                  |
|     | <i>Important:</i> Remember to make backup<br>of the databases. When the databases are<br>removed all meeting data is lost. | InstallShield                            |

#### 9.2.1 Problems un-installing the SW6000 Databases

If the SW6000 Applications have been removed before the SW6000 databases are removed or the above procedure for removing the SW6000 Databases fails the databases can be removed in the following way:

#### Delete the folder C:\Program Files\DIS\SW6000 Database

9.2.2 Un-install SQL 2008 Express Server

The 'Microsoft SQL Server' can be uninstalled using the 'Add or Remove Programs' function is the Windows 'Control Panel' as well, but unless the 'SW6000 Databases' has already After deleting the database the SQL 2008 server has to be un-installed and installed again, if SW6000 has to be re-installed.

**Important:** Remember to make backup of the databases before deleting them. When the databases are removed all meeting data is lost.

been uninstalled, do not uninstall the SQL server

The program is displayed on the list as 'Microsoft SQL Server 2008'.

### 10 Descriptions of the more technical parts

#### 10.1 Database

To use the SW6000 applications a database is needed. The database contains all data used by the application such as participant names, microphone information etc. etc.

When installing the SW6000 software a database will be created with initial data.

The 'SQL Database Engine' hosts all databases.

These SQL servers can host the database for SW6000:

\* Microsoft SQL Server 2008 Express

\* Microsoft SQL Server 2008 SP3 / Microsoft SQL Server 2008 R2 SP2

Microsoft SQL Server Express 2014

Microsoft SQL Server 2012 SP3 / Microsoft SQL Server 2012 R2

Microsoft SQL Server 2012, Enterprise Edition or Standard Edition

Microsoft SQL Server 2014, Enterprise Edition or Standard Edition

Microsoft SQL Server 2016, Enterprise Edition or Standard Edition

Microsoft SQL Server 2017, Enterprise Edition or Standard Edition

\*Microsoft has announced that **On July 9, 2019, support for SQL Server 2008 will end.** It is therefore strongly recommended, that the SQL server 2008 and SQL Express 2008 is updated.

The Microsoft SQL Server Express 2014 is delivered as part of the SW6000 package

If you are planning to use 'Microsoft SQL Server 201x' it must be preinstalled on the computer before you install SW6000. If you are planning to use 'Microsoft SQL Server 2014 Express' you can use the set-up in the SW6000 installation package.

### The'Microsoft SQL Server 201x' is not part of the SW6000 software package only the Express Server.

The data in the database is not secured in any way. If you want to secure your data, you must contact your database administrator and change the connect strings used by the applications accordingly. For a description of connects strings see Connect string.

#### 10.2 **Connect string**

When the applications are connecting to the databases to get access to data they use a 'connect string'. This connect string identifies which database should be used by the application and how.

For the SW6000 the connect string is located in registry key:

#### HKEY\_LOCAL\_MACHINE\SOFTWARE\DIS\DCS6000\Database\Connect string

#### **10.2.1** Connect string for the SQL Server

For the SQL server the value of the connect string will typically have a value similar to the following: -

Provider = SQLOLEDB.1;Initial Catalog=SW6000-1;Data Source=SQLSERVERCOMPUTER;uid=sa; The 'Provider' determines how the application should access the database. In this case OLEDB is used – which is installed when installing MDAC 2.6.

The 'Initial Catalog' is the name of the database to connect to; this will most likely be SW6000-1.

The 'Data Source' will be the name of the computer on which the SQL server is running.

The 'uid' is the user id to be used by the application when connecting to the database. This will most likely be the default system administrator name 'sa' but it depends on how the SQL Server is installed. If you add security to the SQL Server you might change this to more appropriate value, and for example add a password to the Connect string. If you do please note that this password will be public to anyone with access to the registry on the client-machines.

#### 10.3 Workgroup and Domain

Computers that are members of a workgroup don't have common accounts and the trust relationship between computers in a workgroup is inherently lower.

Computers that are members of a domain will have common security permissions as applied to the domain. A higher trust relationship can exist between computers in a domain.

Some of the technologies used in SW6000 – MSMQ and distributed transactions will due to security enforcements work better when applied in a domain. A rule of thumb is that workgroup should only be used for a very limited number of loosely connected computers (10-20 max) and not when advanced mechanisms other than file sharing is used.



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