



# SW6000 User manual

## Installation

User guide for Shure SW6000 Conference Management Software  
Version: 9.3.1 (2021)

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# 1 Introduction

This manual describes how to design a MXC Conference system using the SW6000 Software Packages, how to install the SW6000 Software Packages and how to setup the system for running the first time.

This document does however not 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:

- Required processor: 2 GHz or faster
- Required memory: 4GB RAM or larger
- Required free hard disk space: 20GB or larger
- USB port
- TCP/IP network connection
- VGA screen. Refer to the 'User Manual SW6000 CUA' and 'User Manual SW6000 CAA' for information on min. resolution

For programming or affiliating ID Cards:

- NFC or Chip card programmer f. ex. ACS ACR1252U which is an NFC programmer or ACS ACR1281U which can program both NFC and Chip Cards

## 1.2 Compatibility

**Please check the Software-Firmware compatibility chart for compatibility before Updating.**

If the MXC or DCS 6000 system is an earlier release, an update of the system is needed. Please consult [www.shure.com](http://www.shure.com) for information about updating your system.

## 1.3 Supported Operating Systems

This SW6000 Software version support standard installations\* on the following operating systems:

- Windows Server 2012 R2
- Windows Server 2016
- WIN 8.1 x64 Pro
- WIN 10 x64 Pro

### **Important:**

*Windows XP, Vista and Win 7 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

The SW6000 Software Package including Prerequisites and User Manuals is available for download on [dis.cc](http://dis.cc) and [shure.com](http://shure.com).

## 1.5 User Manuals

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

- Installation Manual SW6000
- User Manual SW6000 CAA Conference Admin Application
- User Manual SW6000 CUA Conference User Application
- User Manual SW6000 CDA Conference Display Application
- User Manual SW6000 CDA Personalized
- User Manual SW6000 ECA External Control Application
- User Manual SW6000 ADV Advanced Meeting Management
- User Manual SW6000 ESI External System Interface
- User Manual SW6000 ESI Web Service Tester
- 
- User Manual SW6000 Registration Facility
- User Manual SW6000 CAA Customized Reports
- User Manual SW6000 CAA Name Sign Template

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## 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 SW6000.

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:

- 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 facilities available in the Applications and Modules available in SW6000:

		<div><div>Admin Application</div><div>User Application</div><div>Display Application</div><div>Parliamentary Voting</div><div>Advanced Microphone Control</div><div>Advanced Agenda Control</div><div>Advanced Speech Time Control</div><div>Streaming Import/Export of meetings</div><div>Web Service Interface Control</div><div>Web Service Interface (Dynamic data)</div></div>						
Facilities not included in SW6000 Basic	SW6000	-CAA	-CUA	-CDA	-Vote	-ADV	-ESI	
Admin facility (more than one instance) CAA	Applications	x						
Participant user interface (more than one instance) CUA			x					
Viewing of information on Large Screens CDA				x				
Voting	Voting				x			
Voting Mimic Diagram					x			
Meeting, Proxy Votes					x			
View Voting Results					x			
Search in Voting Results					x	x		
Voting Configuration					x			
Use Secondary Meeting Role	Microphone					x		
Podium Microphones						x		
Assing 'Show Name' to Meeting Role						x		
Participant Speech Time	Speech Time							
Group Speech Time						x		
Manual Speech Time						x		
Meeting Role Speech time						x		
Agenda Subject Configuration	Agenda					x		
Speaker Type Configuration						x		
Insert of Speakers in Agenda						x		
Open Mic On					x			
Links in Agenda					x			
Multiple Speeches per Subject					x			
Meeting, Alert on CDA	Message					x		
Messages, Send to Group						x		
Groups Table	Participants					x		
Web Browser	Browser					x		
Meeting, Import/Export	External Connection						x	
Start/Stop of external Streaming Application							x	x
Web Service Configuration								x
Dynamic data output during meeting								x

## 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 DIS-CCU:

- CUI – Central Unit 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 servers:

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

*Microsoft SQL server 2005, Enterprise or Standard Edition.*

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

### 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 for the applications shown above are used in the schematics:



## 3.2.1 One PC System Design

### 3.2.1.1 Chairperson or Operator control

Design characteristics	This design is used, where control is done by the Chairperson or an operator. The PC/Laptop can be placed in the meeting room or in a technician booth.
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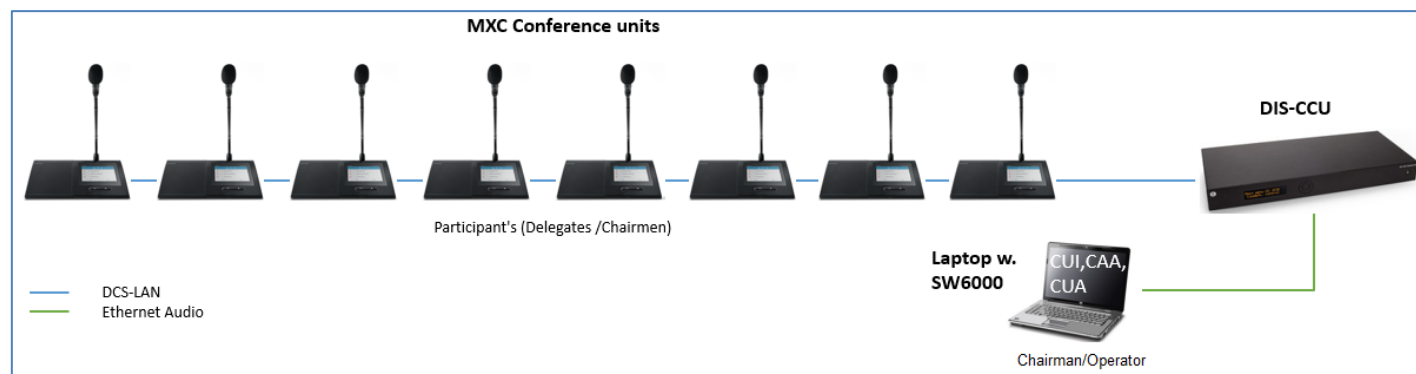


Figure 4.2-A Standard one PC installation

## 3.2.2 Installation with Multiple PC's

### 3.2.2.1 Chairperson & multiple Delegates

Design characteristics	This design is used, where some or all of the Participants have access to a PC. The control of the system can be done from any PC with CUA installed where the Meeting Role gives control privileges' i.e. the 'Operator' or the 'Chairperson'. Pre-meeting settings and system administration is done on the 'Operator PC'.
Reservations	Running the CUI on a Windows 10 operating system is only suitable for systems with up to 10 users. With more than 10 users, the CUI must run on a Windows Server. For systems with less than 25 users, the SQL Server Express Edition can be used. For systems with more than 25 users, it is recommended to use an SQL Server version for better performance. SQL Servers require Microsoft licenses.

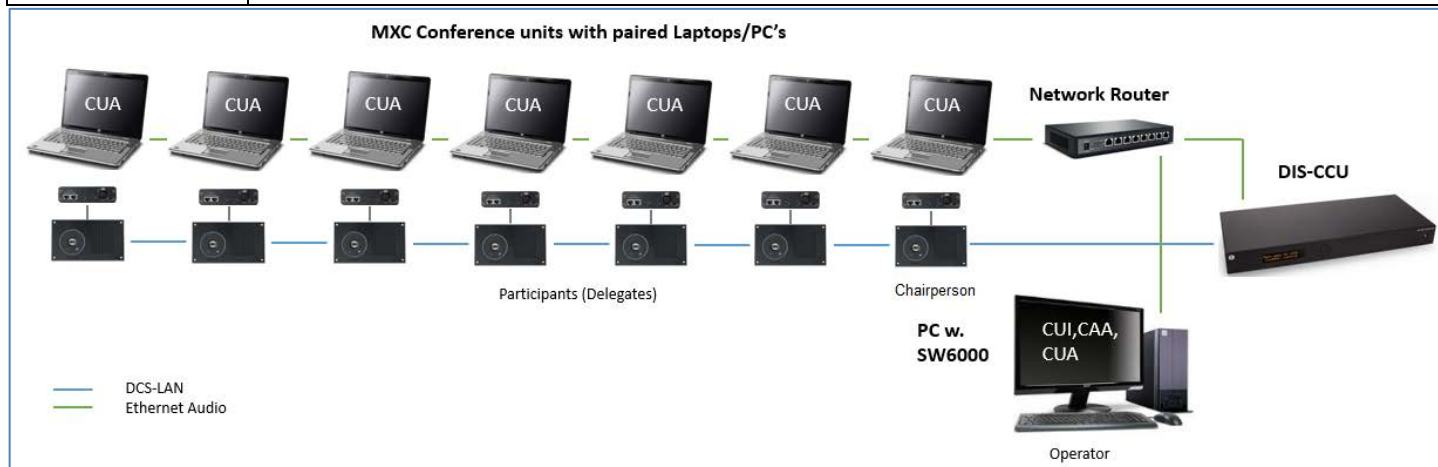


Figure 4.2-B Installation with multiple PC's

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

Design characteristics	This design is used, where a 'Chairperson' is controlling or monitoring the system and where a 'Operator/Technician' can take over the control of the system if needed. Administration is done on the 'Operator/Technician' PC.
Reservations	Running the CUI on a Windows 10 operating system is only suitable for systems with up to 10 users. With more than 10 users, the CUI must run on a Windows Server.  For systems with less than 25 users, the SQL Server Express Edition can be used. For systems with more than 25 users, it is recommended to use an SQL Server version for better performance.  SQL Servers require Microsoft licenses.

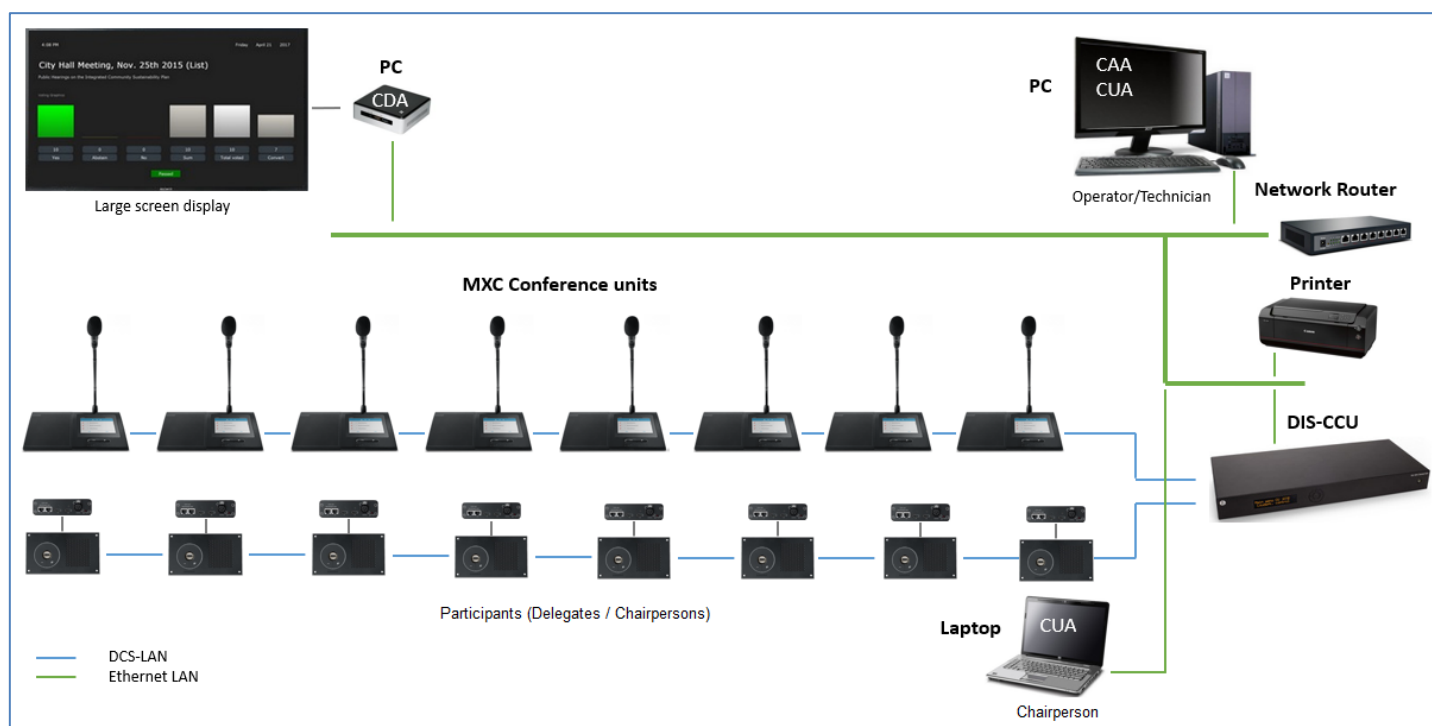


Figure 4.2-C Installation with multiple PC's

### 3.2.2.3 Chairperson & Delegates control >10 PCs

Design characteristics	<p>This design is used, where some or all of the Participants have access to a PC. The control of the system can be done from any PC with CUA installed where the Meeting Role gives control privileges' i.e. the 'Technician' or the 'Chairperson'.</p> <p>Administration is done on the 'Technician' PC or on the 'Administration' PC.</p>
Reservations	<p>Running the CUI on a Windows 10 operating system is only suitable for systems with up to 10 users. With more than 10 users, the CUI must run on a Windows Server.</p> <p>For systems with less than 25 users, the SQL Server Express Edition can be used. For systems with more than 25 users, it is recommended to use an SQL Server version for better performance.</p> <p>SQL Servers require Microsoft licenses.</p>

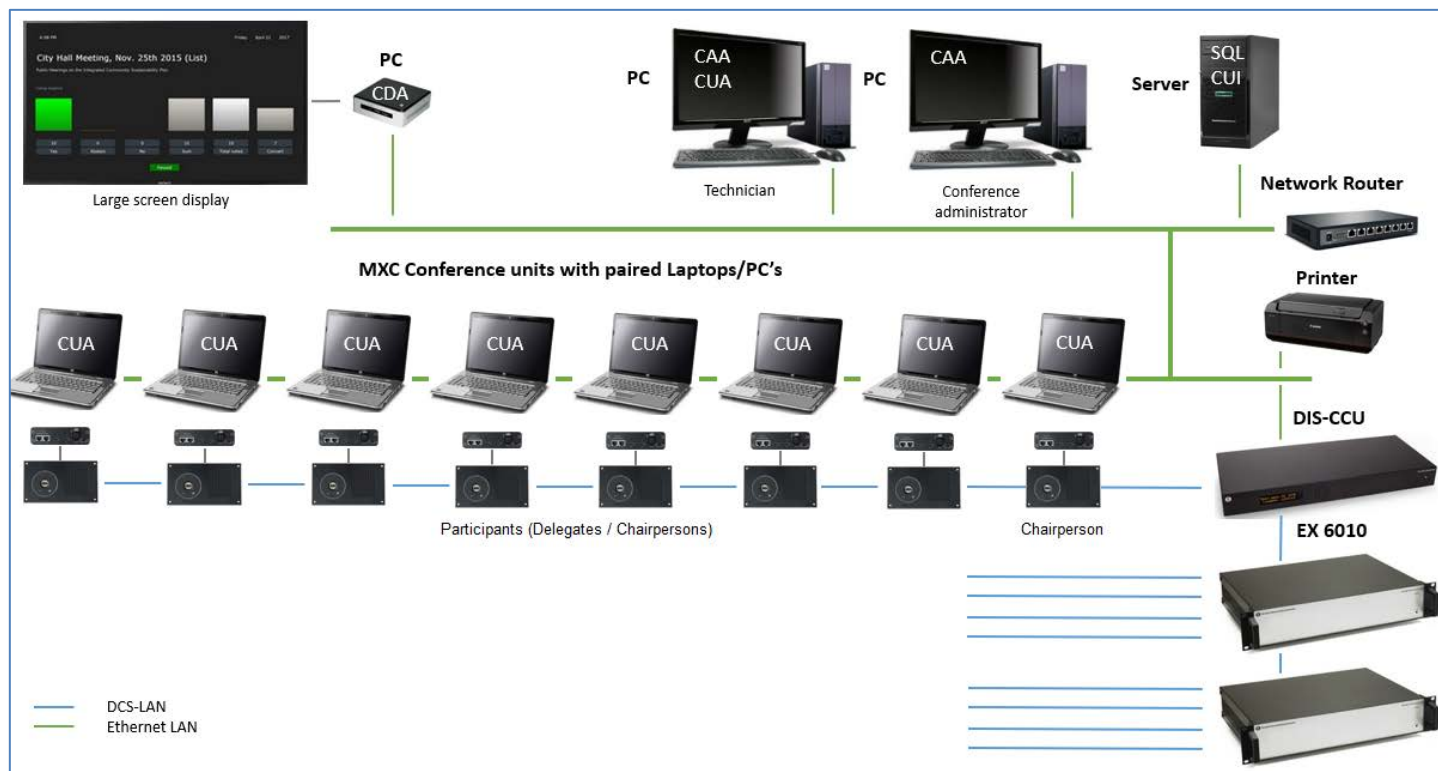


Figure 4.2-D Installation with multiple PC's

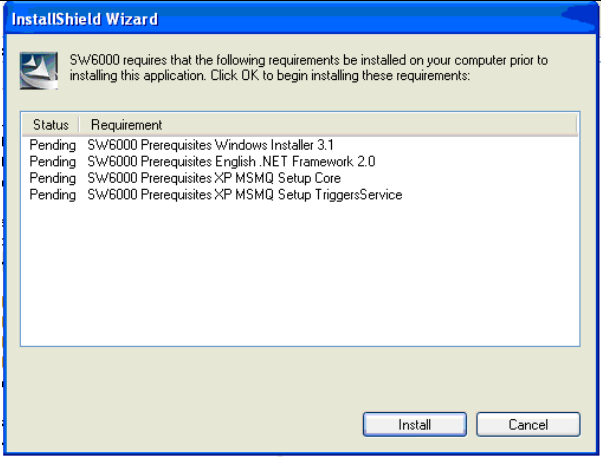
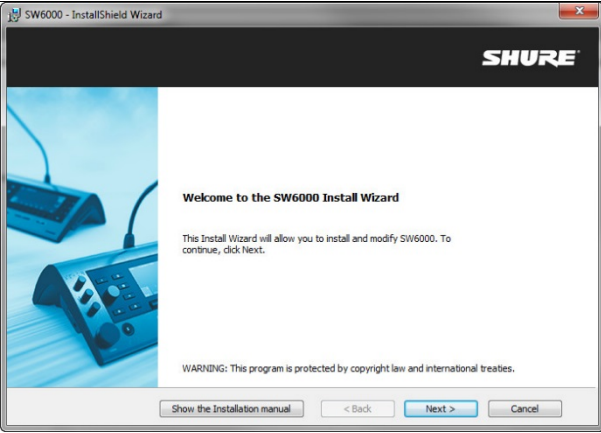
# 4 Software Installation


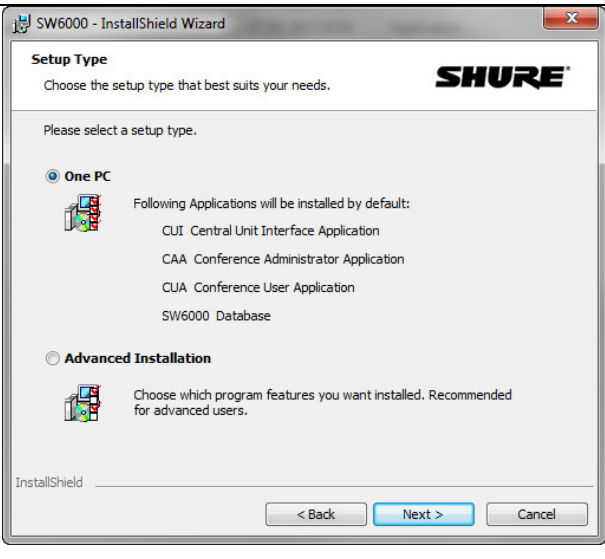
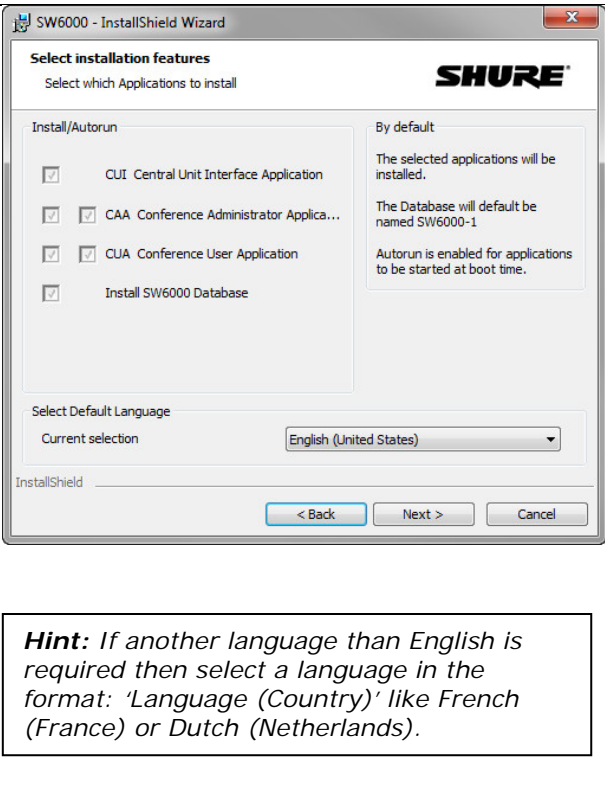
## 4.1 'One PC' Installation or first installation in a multi-PC system

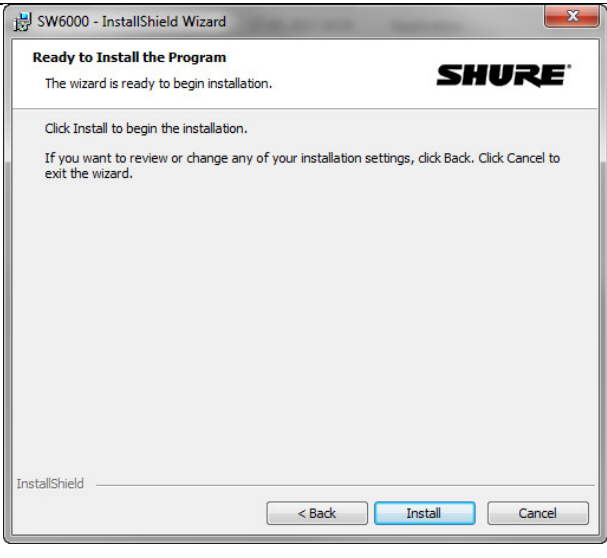
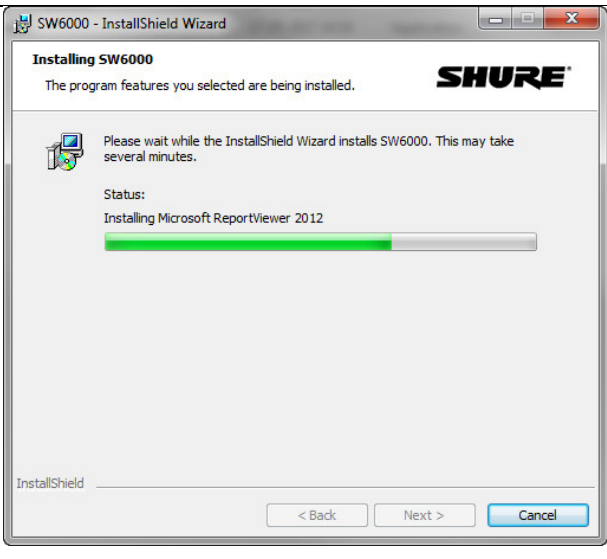
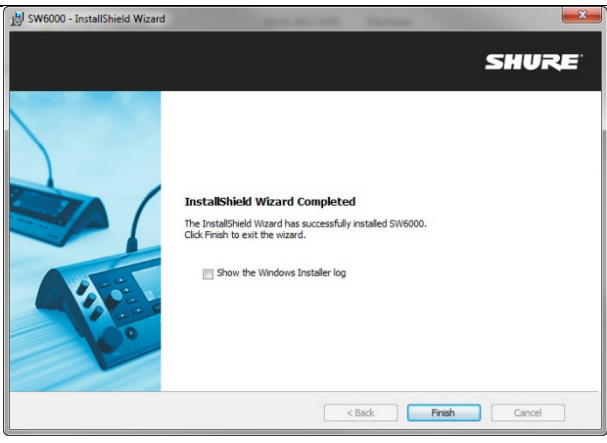
The following installation procedure describes how to install the SW6000 Software on a PC in a design as described in the section '3.2.1 One PC System Design'.

**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.	<p>Download the SW6000 software from the Shure download web site.</p> <p>Select on the Setup.exe in the 'SW6000 #Installation' folder in the SW6000 Software package,</p> <p>'The install Shield Wizard' will automatically show a list of 'Prerequisites' required for running SW6000</p> <p>Select 'Install' and continue selecting 'Install' until you are asked if you want to install the SW6000 Applications.</p>	
2.	<p>After installing the 'Prerequisites', the installation wizard continues by installing the SW6000 Applications</p> <p>Select 'Next'</p>	

3.	Accept the License Conditions and select 'Next'	
4.	The installation gives two choices: 'One PC' installation and 'Advanced Installation'. Select 'One PC' and select 'Next'	
5.	<p>Select Default Language.</p> <p><b>Important:</b> The default language must be selected during installation and cannot be changed after the installation is completed.</p> <p>Select 'Next'</p> <p>The 'CAA', 'CUI', 'CUA' and 'SW6000' will then be installed and the applications will start-up automatically when the PC is started.</p> <p><b>Important:</b> Despite selecting a Default system language other than English, the labels in all applications will still be the factory labels (English) and need to be translated after installation.</p> <p>A number of language files (20+) are however available in the SW6000 Installation package and if the language selected is different from English, and the language exist in the SW6000 Installation package, the label language file can be imported. If not, translations for all labels has to be created.</p> <p>Note that the 'language culture ID' in the selected default system language shall match the 'language culture ID' of language file to be imported.</p>	 <p><b>Hint:</b> If another language than English is required then select a language in the format: 'Language (Country)' like French (France) or Dutch (Netherlands).</p>

6.	Select Install	
7.	<p>If no SQL server is installed previously you will be asked to confirm if you want the SQL Server Express to be installed.</p> <p>Select 'Yes'</p>	
8.	The SQL Server Express is now being installed.	
9.	The software is installed	
10.	<p>Select 'Finish' to complete the installation.</p> <p>Shortcuts to the application have been created at the 'Desktop', in the 'Start menu' and in the 'Startup folder' for automatic startup of the applications.</p>	

## 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 '4.2.2 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 a Windows 10/Server 2012 system please note that there are some built in Windows errors, which have to be corrected before running SW6000.

Refer to section '5.2.1 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 '5.2.2 Additional Firewall settings' and '5.2.3 Message Queuing settings'.

### 4.2.1 Windows Corrections

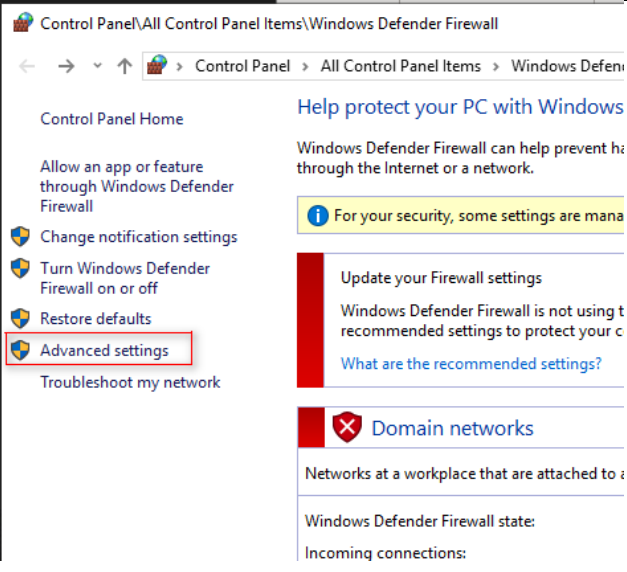
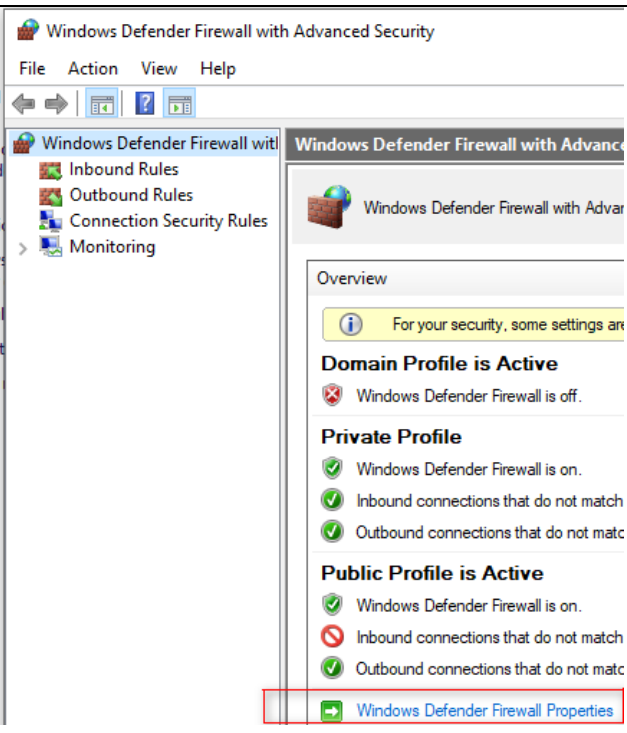
If more than one PC is used in the system using Windows 10 or Server 2012 please note that there are some built in Windows errors, which have to be corrected before running SW6000:

1.	Enable MSDTC to allow the network transaction. To do this, follow these steps:
a.	Select <b>Start</b> .
b.	Type <b>dcomcnfg.exe</b> , and then select <b>Enter</b> .
c.	In the <b>Component Services</b> window, expand <b>Component Services Computers My Computer Distributed Transaction Coordinator</b> .
d.	Right-click <b>Local DTC</b> and select <b>Properties</b> .
e.	In the <b>Local DTC Properties</b> dialog box, select on <b>Security</b> tab.
f.	Select to select the <b>Network DTC Access</b> check box.
g.	Under the <b>Transaction Manager Communication</b> group, Select <b>Allow Inbound</b> Select <b>Allow Outbound</b> Select <b>No Authentication Required</b>
j.	In the <b>Local DTC Properties</b> dialog box, select <b>OK</b> .
2	Configure Windows Firewall to include the MSDTC program as an exception. To do this, follow these steps:
a.	Select <b>Start</b> .
b.	Type <b>Firewall.cpl</b> , and then select <b>Enter</b>
c.	In <b>Windows Firewall</b> dialog box, select <b>Allow an app or feature through Windows Defender Firewall</b> .
d.	In the <b>Allowed Programs</b> dialog box, select <b>Allow another Program....</b> If button is not enabled then select <b>Change Settings</b> first
e.	In the <b>Add a Program</b> dialog box, select the <b>Browse</b> button, and then locate the Msdtc.exe file. By default, the file is stored in the <b>&lt;Installation drive&gt;:\Windows\System32</b> folder.
f.	In the <b>Add a Program</b> dialog box, select <b>Add</b> .
g.	In the <b>Allowed Programs</b> dialog box, Select <b>Microsoft Distributed Transaction Coordinator Service</b> and check all check box's
h.	In the <b>Allowed Programs</b> dialog box, select <b>OK</b> .

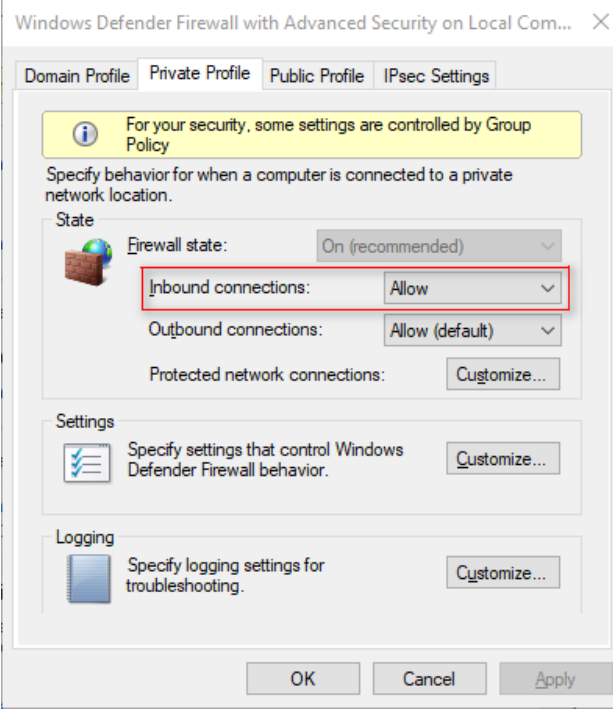


## 4.2.2 Additional Firewall settings

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

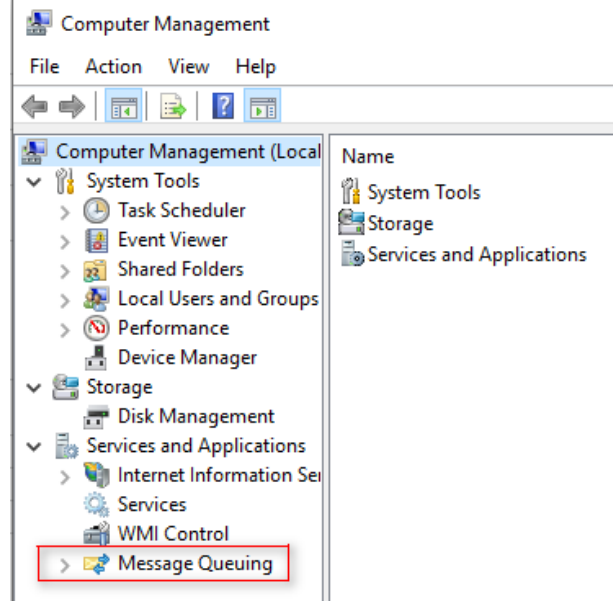
11.	<p>Select <b>Start</b></p> <p>Type <b>Firewall.cpl</b>, and then select Enter</p> <p>Select <b>Advanced Settings</b></p>	 <p>Control Panel\All Control Panel Items\Windows Defender Firewall</p> <p>Control Panel Home</p> <p>Allow an app or feature through Windows Defender Firewall</p> <p>Change notification settings</p> <p>Turn Windows Defender Firewall on or off</p> <p>Restore defaults</p> <p><b>Advanced settings</b></p> <p>Troubleshoot my network</p> <p>Help protect your PC with Windows</p> <p>Windows Defender Firewall can help prevent hackers from getting through the Internet or a network.</p> <p>For your security, some settings are managed for you.</p> <p>Update your Firewall settings</p> <p>Windows Defender Firewall is not using the recommended settings to protect your computer.</p> <p>What are the recommended settings?</p> <p>Domain networks</p> <p>Networks at a workplace that are attached to a domain.</p> <p>Windows Defender Firewall state:</p> <p>Incoming connections:</p>
12.	<p>Select <b>Windows Firewall Properties</b></p>	 <p>Windows Defender Firewall with Advanced Security</p> <p>File Action View Help</p> <p>Windows Defender Firewall with Advanced Security</p> <p>Inbound Rules</p> <p>Outbound Rules</p> <p>Connection Security Rules</p> <p>Monitoring</p> <p>Overview</p> <p>For your security, some settings are managed for you.</p> <p><b>Domain Profile is Active</b></p> <p>Windows Defender Firewall is off.</p> <p><b>Private Profile</b></p> <p>Windows Defender Firewall is on.</p> <p>Inbound connections that do not match the default rule are blocked.</p> <p>Outbound connections that do not match the default rule are allowed.</p> <p><b>Public Profile is Active</b></p> <p>Windows Defender Firewall is on.</p> <p>Inbound connections that do not match the default rule are blocked.</p> <p>Outbound connections that do not match the default rule are allowed.</p> <p><b>Windows Defender Firewall Properties</b></p>

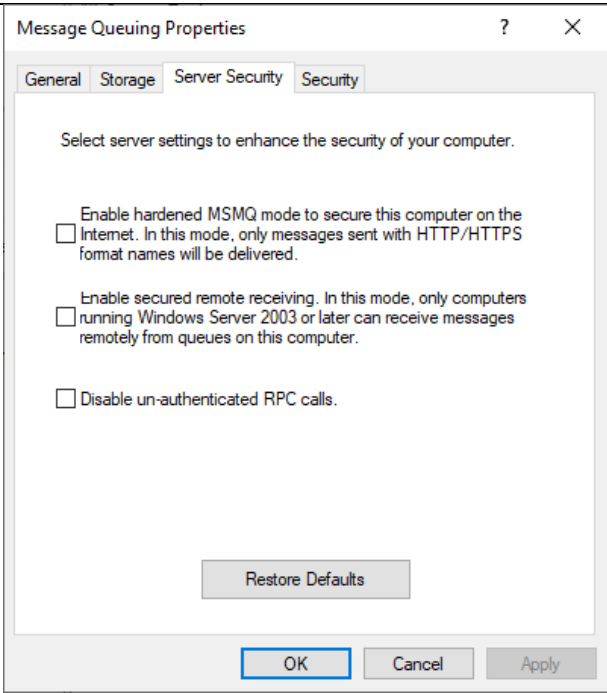


13.	In 'Domain Profile' and 'Private profile' use the dropdown box to select <b>Allow</b> for <b>Inbound connections</b> .	 <p>Windows Defender Firewall with Advanced Security on Local Com... X</p> <p>Domain Profile Private Profile Public Profile IPsec Settings</p> <p>For your security, some settings are controlled by Group Policy</p> <p>Specify behavior for when a computer is connected to a private network location.</p> <p>State</p> <p>Firewall state: On (recommended)</p> <p>Inbound connections: Allow</p> <p>Outbound connections: Allow (default)</p> <p>Protected network connections: Customize...</p> <p>Settings</p> <p>Specify settings that control Windows Defender Firewall behavior. Customize...</p> <p>Logging</p> <p>Specify logging settings for troubleshooting. Customize...</p> <p>OK Cancel Apply</p>
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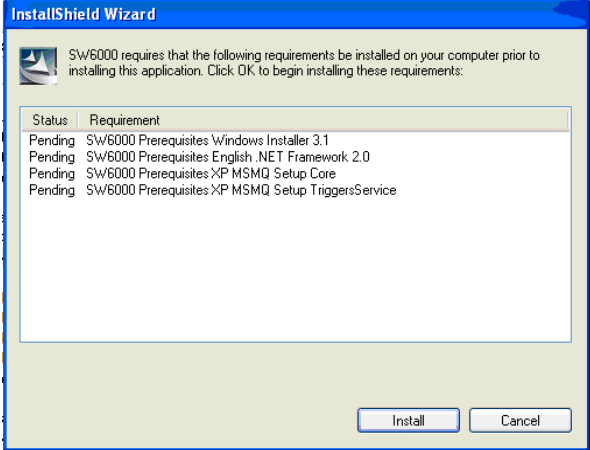
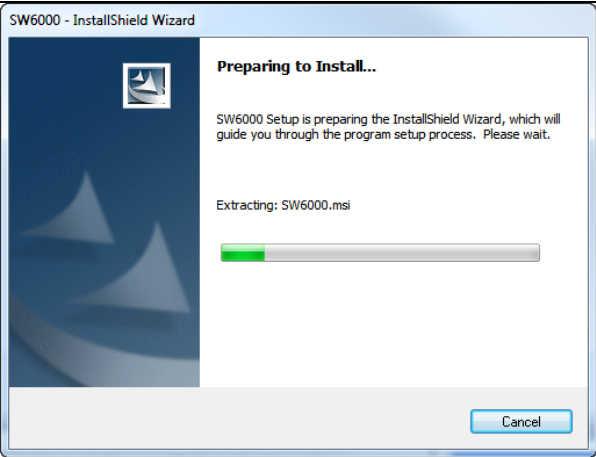
#### 4.2.3 Message Queuing settings

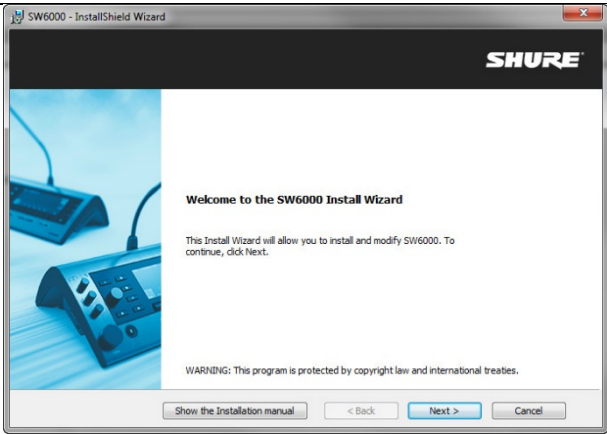

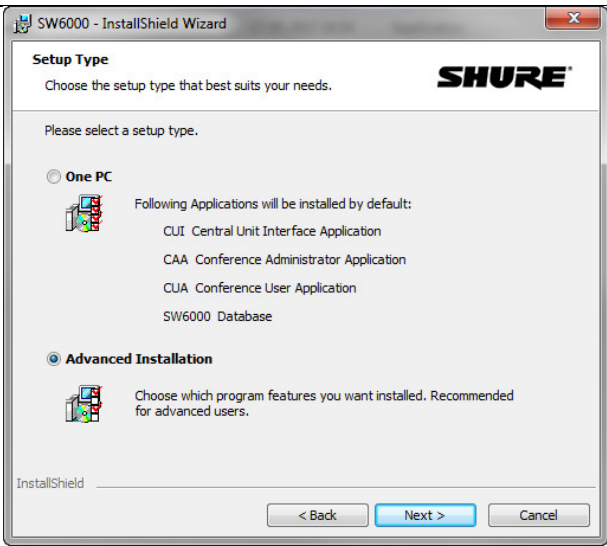
If the system shall run with firewall active the following setting must be done on all PC's in the system.

14.	<p>Select <b>Start</b></p> <p>Type <b>Computer Management</b></p> <p>Expand <b>Services and Application</b></p> <p>Right-click on <b>Message Queuing</b></p> <p>Select <b>Properties</b></p>	 <p>Computer Management</p> <p>File Action View Help</p> <p>Computer Management (Local)</p> <ul style="list-style-type: none"> <li>System Tools <ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Disk Management</li> </ul> </li> <li>Services and Applications <ul style="list-style-type: none"> <li>Internet Information Services</li> <li>Services</li> <li>WMI Control</li> <li>Message Queuing</li> </ul> </li> </ul> <p>Name</p> <ul style="list-style-type: none"> <li>System Tools</li> <li>Storage</li> <li>Services and Applications</li> </ul>
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15.	<p>Select the tab <b>Server Security</b></p> <p>Un-select <b>Disable un-authenticated RPC calls</b></p>	 <p>The screenshot shows the 'Message Queuing Properties' dialog box with the 'Server Security' tab selected. It contains three checkboxes: 'Enable hardened MSMQ mode to secure this computer on the Internet' (unchecked), 'Enable secured remote receiving' (unchecked), and 'Disable un-authenticated RPC calls' (unchecked). There is a 'Restore Defaults' button and 'OK', 'Cancel', and 'Apply' buttons at the bottom.</p>
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#### 4.2.4 Installing SW6000

16.	<p>Download the SW6000 software from the Shure download web site.</p> <p>Select on the Setup.exe in the 'SW6000 #Installation' folder in the SW6000 Software package,</p> <p>'The install Shield Wizard' will automatically show a list of 'Prerequisites' required for running SW6000</p> <p>Select 'Install' and continue selecting 'Install' until you are asked if you want to install the SW6000 Applications.</p>	 <table border="1"><thead><tr><th>Status</th><th>Requirement</th></tr></thead><tbody><tr><td>Pending</td><td>SW6000 Prerequisites Windows Installer 3.1</td></tr><tr><td>Pending</td><td>SW6000 Prerequisites English .NET Framework 2.0</td></tr><tr><td>Pending</td><td>SW6000 Prerequisites XP MSMQ Setup Core</td></tr><tr><td>Pending</td><td>SW6000 Prerequisites XP MSMQ Setup TriggersService</td></tr></tbody></table>	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
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											
17.	<p>After installing the 'Prerequisites', the setup program is preparing the InstallShield wizard.</p>											

18.	<p>After installing the 'Prerequisites', the installation wizard continues by installing the SW6000 Applications</p> <p>Select 'Next'</p>	 <p>The screenshot shows the 'Welcome to the SW6000 Install Wizard' window. It features the Shure logo at the top right. On the left is an image of a Shure SW6000 device. The main text reads: 'Welcome to the SW6000 Install Wizard. This Install Wizard will allow you to install and modify SW6000. To continue, click Next.' Below this is a warning: 'WARNING: This program is protected by copyright law and international treaties.' At the bottom are buttons for 'Show the Installation manual', '&lt; Back', 'Next &gt;', and 'Cancel'.</p>
19.	<p>Accept the License Conditions and select 'Next'</p>	 <p>The screenshot shows the 'License Agreement' window. It includes the Shure logo and the text: 'Please read the following license agreement carefully.' The main content area is titled 'Software License Agreement' and contains the text: '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.' Below this is the 'End-user License Agreement for SHURE Software' section, which states: 'Important - read carefully. This SHURE End-User License Agreement ("EULA") is a legal agreement'. There are two radio buttons: 'I accept the terms in the license agreement' (which is selected) and 'I do not accept the terms in the license agreement'. A 'Print' button is on the right. At the bottom are '&lt; Back', 'Next &gt;', and 'Cancel' buttons.</p>
20.	<p>The installation gives two choices 'One PC' installation and 'Advanced Installation'. Select 'Advanced Installation' and select 'Next'</p>	 <p>The screenshot shows the 'Setup Type' window. It includes the Shure logo and the text: 'Choose the setup type that best suits your needs. Please select a setup type.' There are two radio buttons: 'One PC' (which is unselected) and 'Advanced Installation' (which is selected). Under 'One PC', it lists: 'Following Applications will be installed by default: CUI Central Unit Interface Application, CAA Conference Administrator Application, CUA Conference User Application, SW6000 Database'. Under 'Advanced Installation', it says: 'Choose which program features you want installed. Recommended for advanced users.' At the bottom are '&lt; Back', 'Next &gt;', and 'Cancel' buttons.</p>

21.

### CUI

Select the CUI 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.

Un-select the CUI 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

Select the SW6000 Database

- if you are making a new installation, where the SW6000 database and SQL server shall be installed
- if you want to add one or more additional SW6000 databases instances to a previous installation to the PC/Server where the ‘SQL Server’ has been installed.

Un-Select the ‘SW6000 Database’ when installing on all other PC’s in the system, where the SW6000 Database has already been installed on another PC in the system.

### Select Default language

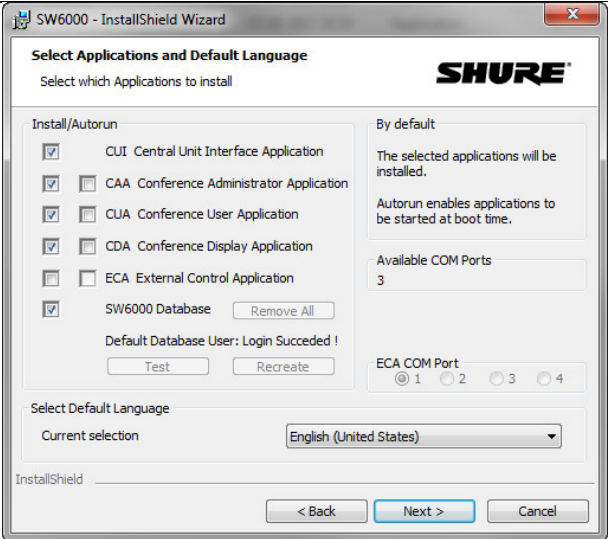
Select the default language (System language) only if you are making a new database installation

**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.

Select ‘Next’

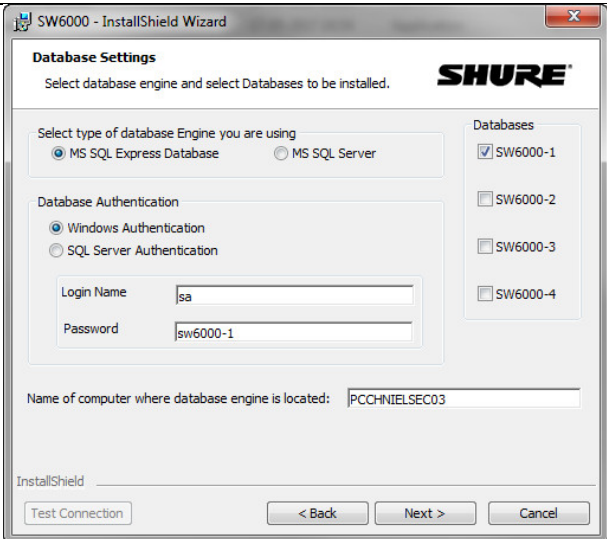
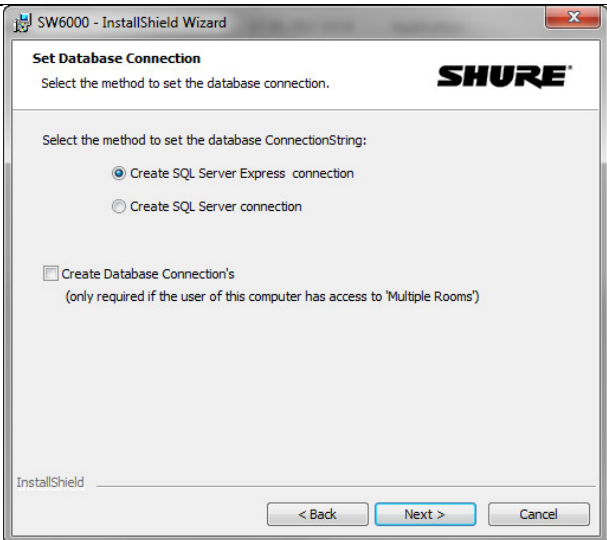


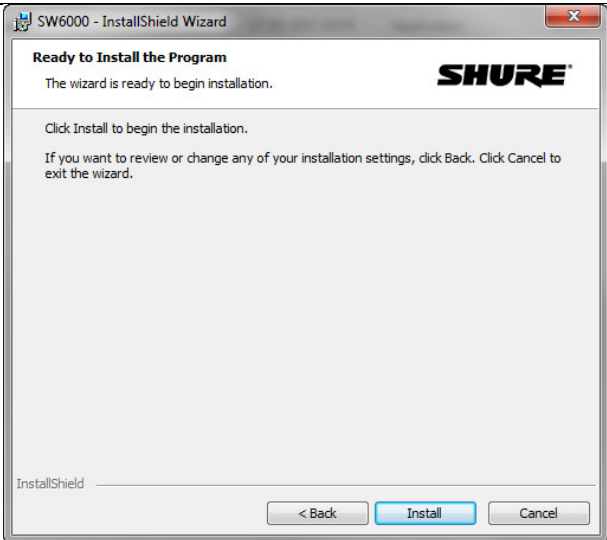
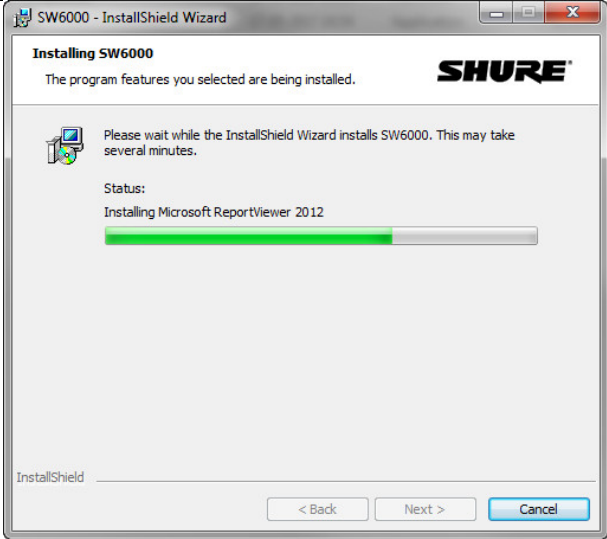
**Important on language selection:** Despite selecting a system language other than English, the labels in all applications will still be the factory labels (English) and need to be translated after installation.

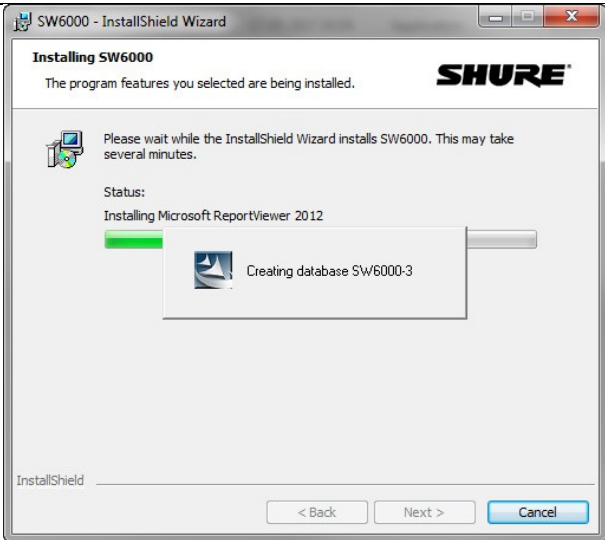
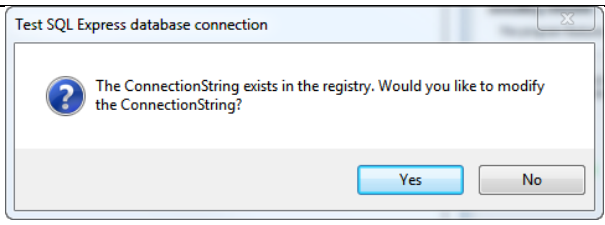
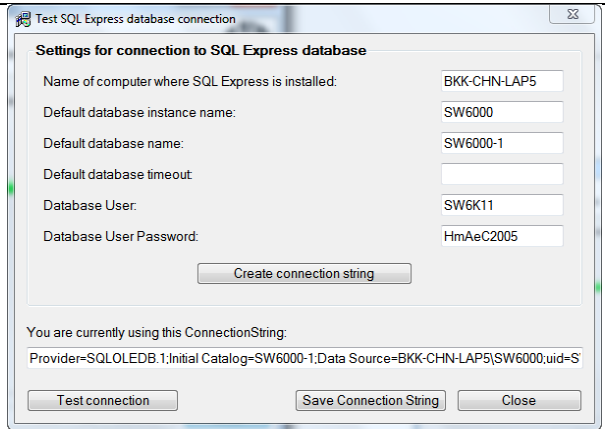
A number of language files (20+) are however available in the SW6000 Installation package and if the language selected is different from English, and the language exist in the SW6000 Installation package, the label language file can be imported. If not, translations for all labels has to be created.

Note that the ‘language culture ID’ in the selected default system language shall match the ‘language culture ID’ of language file to be imported.

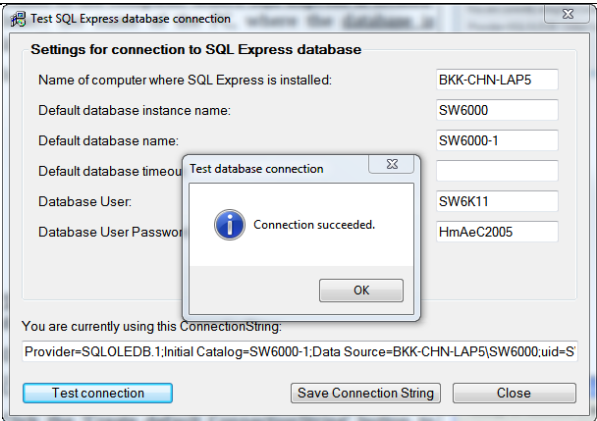
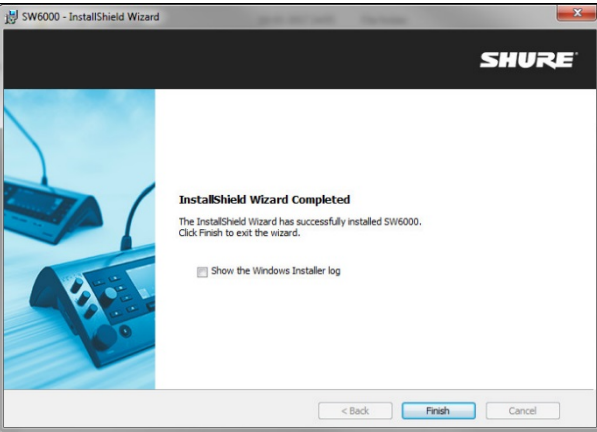
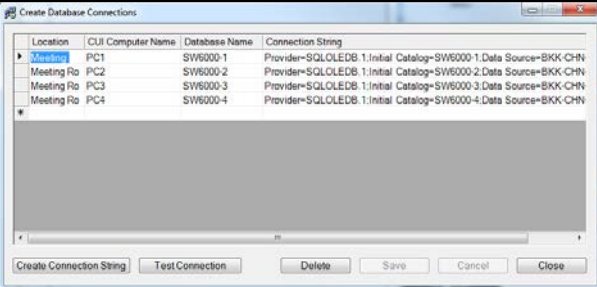
**Hint on language selection:** If another language than English is required then select a language in the format: ‘Language (Country)’ like French (France) or Dutch

22.	<p>If 'SW6000 Database' was selected in previous screen the 'Database Settings' will be shown.</p> <p><b>Database Engine</b></p> <p>The database engine installed together with SW6000 is MS SQL Express. Select 'MS SQL Server' is this type of database server is in use.</p> <p><b>Databases</b></p> <p>Select 'SW6000-1' as the database to be installed.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>INFO:</b> The SW6000 system can install up to 4 databases in each database engine. The names of the databases are limited to 'SW6000-1', 'SW6000-2', 'SW6000-3', and 'SW6000-4'.</p> <p>For most installations only the SW6000-1 database is needed.</p> <p><b>IMPORTANT:</b> Remember the name of the database(s) selected as well as the name of the computer as this information is needed when installing the SW6000 Software on other PC's</p> </div> <p>Select 'Next'</p>	
23.	<p><b>Set Database Connection</b></p> <p>This page sets the type of database connection string to be used.</p> <p><u>Create SQL Server Express connection</u> is default</p> <p><u>Create SQL Server connection</u> shall be selected if a 'MS SQL Server' is in use.</p> <p><u>Create Database Connection's</u> might be checked if the option to connect to multiple databases shall be configured. This setting can be done later in the CAA application.</p> <p>Select 'Next' to continue.</p>	

24.	Select 'Install' to install the options selected	
25.	<p>If you selected 'SW6000 Database' in item 16.</p> <p>If no SQL server is installed previously you will be asked to confirm if you want the SQL server Express to be installed.</p> <p>Select 'Yes'</p>	
26.	The SQL Server Express is now being installed.	
27.	The SW6000 Applications are then being installed	

28.	The database(s) are created	
29.	<p>If a connection string is present, you will be asked if you want to modify the connection string.</p> <p>Select <u>No</u> if you do not want to change</p> <p>Select <u>Yes</u> if you want to modify the connection string or just want to check.</p>	
30.	<p>If no 'Connection String' was present or you selected 'Yes' to modify, the 'Test SQL Express database connection' options are shown.</p> <div data-bbox="199 1151 726 1274" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>Info:</b> The 'connection string' is the 'address' the application uses to connect to the database</p> </div> <p>Use default or change those fields if needed:</p> <p><u>'Name of the computer where SQL Express is located'</u> Insert the name of the PC, where the database is installed.</p> <p>In the example the name is 'bkk-lap-chn5'</p> <div data-bbox="199 1500 726 1769" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>Important:</b> When installing the applications CAA, CUA, ECA or CDA on other PCs than the one where the database is installed the 'Name of the computer...' and 'Default database name' has to be filled in. The name of the computer is the computer, where the SQL database server is installed.</p> </div> <p><u>'Default database name'</u> In the example the name is the default 'SW6000-1'</p> <p>Other settings are normally not changed.</p>	

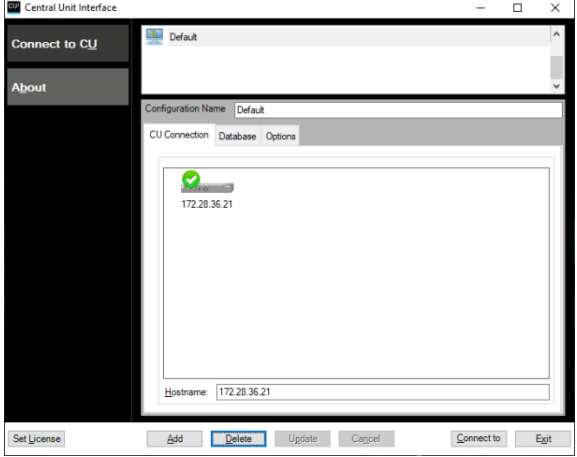
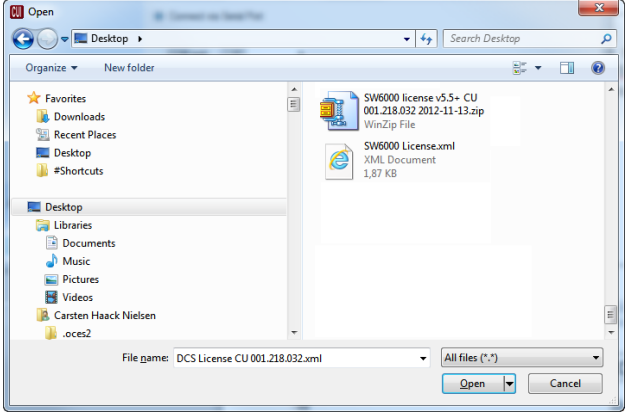
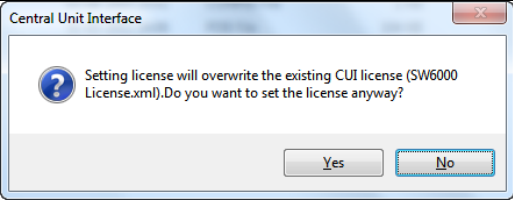


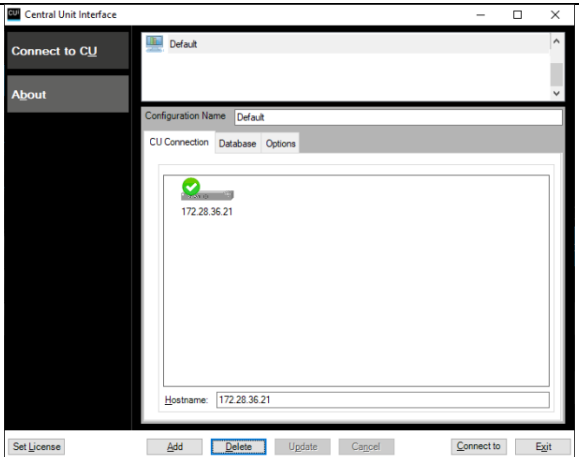

31.	<p>Create, Test and Save Connection String:</p> <p>Select the 'Create default ConnectionString' button to generate the connection string according to the parameters provided.</p> <p>The resulting 'ConnectionString' will be displayed in the textbox at the bottom of the window</p> <p>Select 'Test connection'.</p> <p>The message 'Connection succeeded' will show.</p> <div data-bbox="225 622 751 775" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>Important:</b> This test must succeed. If the test does not succeed then the name of the computer or the default database name might be wrong.</p> </div> <p>Select 'Save ConnectionString'</p> <p>Select 'Close'</p>	
32.	<p>Select 'Finish' to complete the installation.</p> <p>Shortcuts to the application have now been created at the 'Desktop', the 'Start menu' and in the 'Startup folder' for automatic startup of the application.</p>	
33.	<p>If you have selected 'Create Database Connection's' previously, the 'Create Database Connection's' window will appear.</p> <p>For details please refer to the 'User Manual SW6000 CAA'.</p>	



## 5 After installation of SW6000 Software

### 5.1 Starting the CUI for the first time

34.	<p>During installation of SW6000 a shortcut to the CUI application has been created at the 'Desktop' in the 'Start menu' and optionally in the 'Startup folder' for automatic startup of the application.</p> <p>When starting the CUI for the first time the CUI configuration windows open.</p>	 <p><b>Important:</b> The window will only list the CCU's if 'Apple – Bonjour for Windows' is installed. If 'Bonjour' is not 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.</p>
35.	<p>Select 'Set License'</p> <p>A browser window will open. Browse to the 'SW6000 License.xml' file.</p> <div data-bbox="220 1323 751 1451"> <p><b>Info:</b> For more information about the SW6000 License file, please refer to the section '2 Licensing'.</p> </div>	
32	<p>Select 'Yes' to insert the license file</p>	

36.	<p>Select 'Connect to'</p> <p>The CUI will now start connecting to the selected CU.</p> <div data-bbox="177 342 831 629"><p><b>Info:</b> The selections made are used next time the CUI is started, where the 'CUI Configuration window' will not open.</p><p>If a new selection has to be made, the shortcut 'Configure CUI' in the Start menu must be used.</p><p>For 'Advanced' option please refer to section '7.1 Advanced setting in the CUI'.</p></div>	
37.	<p>When the CUI is started an Icon is visible in the taskbar.</p> <p>For details section '7.1 Advanced setting in the CUI'</p>	

## 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 software.

### 6.1 Steps

1. Connect the DIS-CCU Central Unit to the PC, where the CUI is installed using the TCP/IP ports
2. Turn on the CCU with all units connected (Conference units, AO units etc.)
3. Start the CUI application.

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.

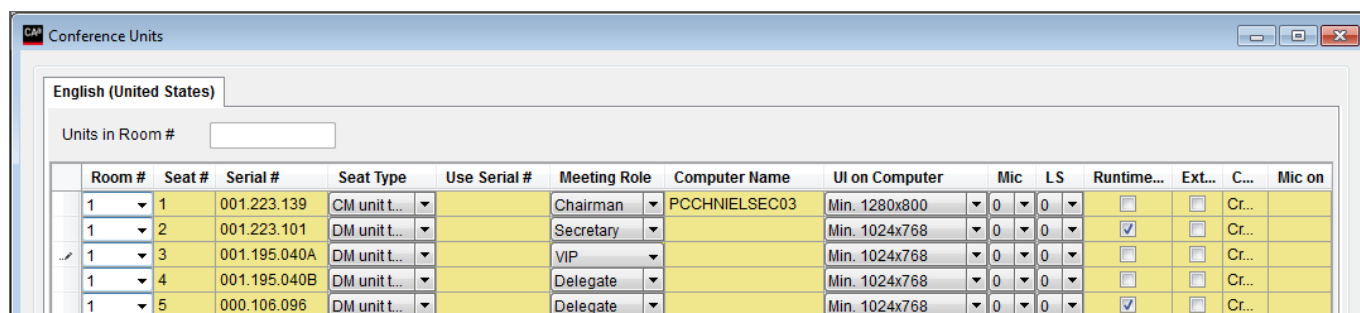
When the CUI application starts to communicate with the CCU it will receive information for all units connected to the CCU. The CUI application will then create one seat in the Conference Units table for each Conference Unit and numbering the seats, starting at one and counting upwards.

4. Start the CAA Conference Administration Application. If needed the database will be updated automatically.
5. Select the Meeting Role screen from the 'Setup|Meeting Role' and optionally create additional Meeting Roles (e.g. Vice Chairperson) 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 Chairperson 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 applies as default when no one is logged in.



Room #	Seat #	Serial #	Seat Type	Use Serial #	Meeting Role	Computer Name	UI on Computer	Mic	LS	Runtime...	Ext...	C...	Mic on
1	1	001.223.139	DM unit t...		Chairman	PCCHNIELSEC03	Min. 1280x800	0	0			Cr...	
1	2	001.223.101	DM unit t...		Secretary		Min. 1024x768	0	0	<input checked="" type="checkbox"/>		Cr...	
1	3	001.195.040A	DM unit t...		VIP		Min. 1024x768	0	0			Cr...	
1	4	001.195.040B	DM unit t...		Delegate		Min. 1024x768	0	0			Cr...	
1	5	000.106.096	DM unit t...		Delegate		Min. 1024x768	0	0	<input checked="" type="checkbox"/>		Cr...	

Figure 7.1-A List of units

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.

**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.

7. Select the 'Users' screen
  - a. Type in information for all the users who shall use the system.
  - b. Select the default Meeting Role for the user.

- c. Enter additional information required for the users in up to four user definable 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. If the Default System language is different from English, and the language exists in the SW6000 Installation package, import the label file (the language culture ID in the selected default system language shall match the language culture ID of language file to be imported). If not, translations for all labels have 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 choose the English tab and select label 40 and change 'Meeting Room' to a description, which applied to your installation.

**Important:** Despite selecting a default system language other than English during installation, the labels in all applications will still be the factory labels (English). A number of language files are available in the SW6000 installation folder.

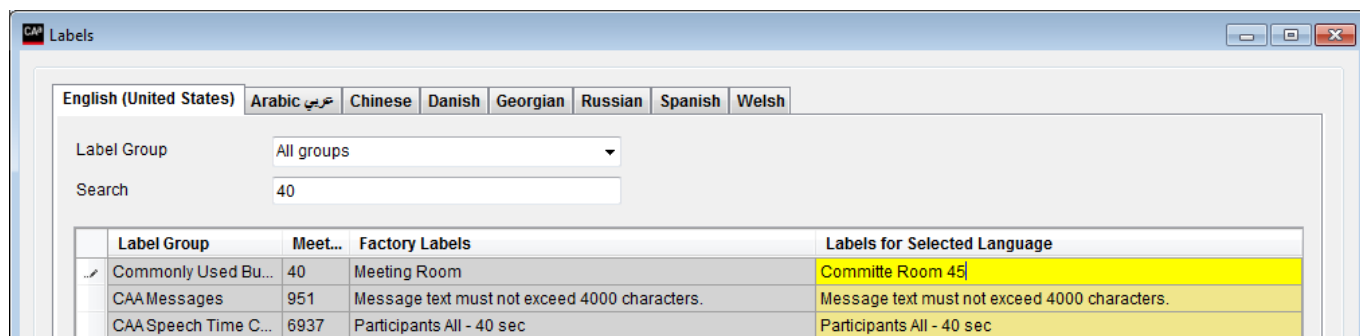


Figure 7.1-B Label for room description

11. 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.
13. 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 ID 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. Select update
15. Select 'Participant List'
  - a. Select the Participant who is to be placed in Seat 1 and select >>

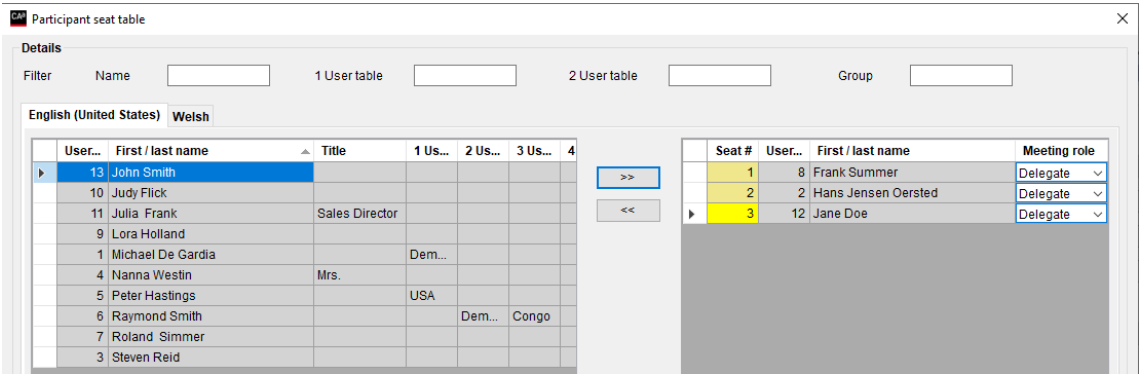


Figure 7.1-C Participant seat table

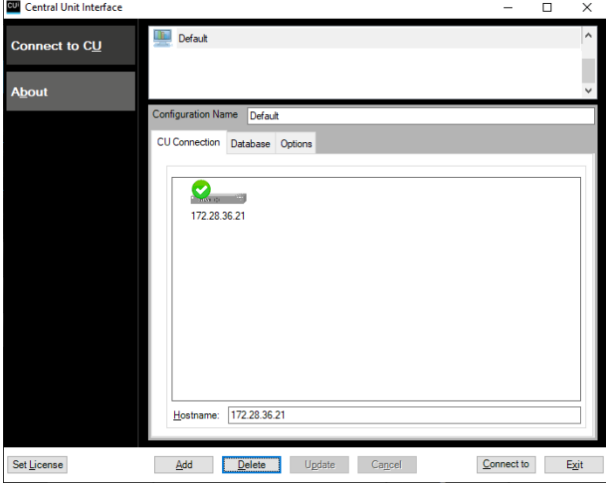
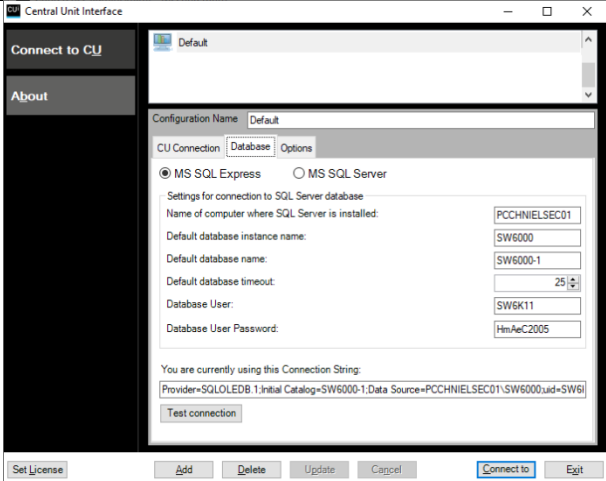
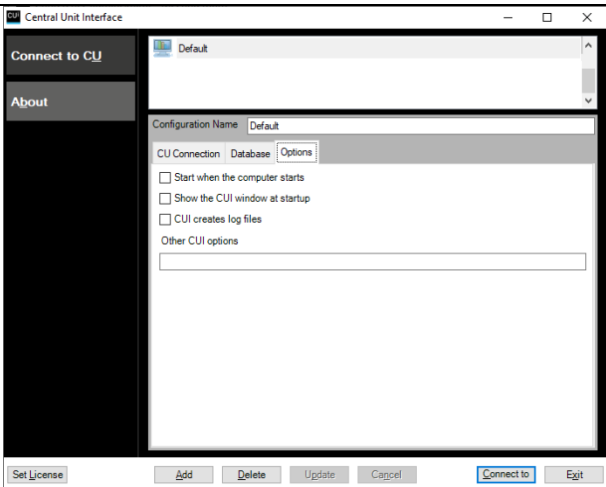
- b. Select the Participant who is to be placed in Seat 2 and select >>. Continue until all participants are placed in the seats
  - c. Select for each participant the Meeting Role, which shall apply for the participant for this meeting
  - d. Select Update and close the Participant Seat Table
16. Select Agenda and fill in the Agenda details for the Meeting
17. Select 'Agenda|Options' and select the default options for this meeting
18. Select Update

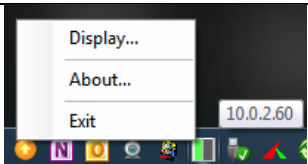
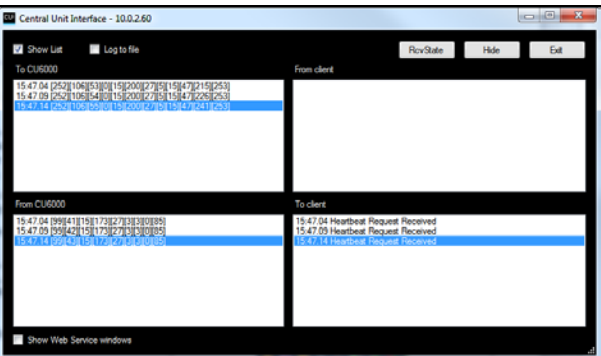
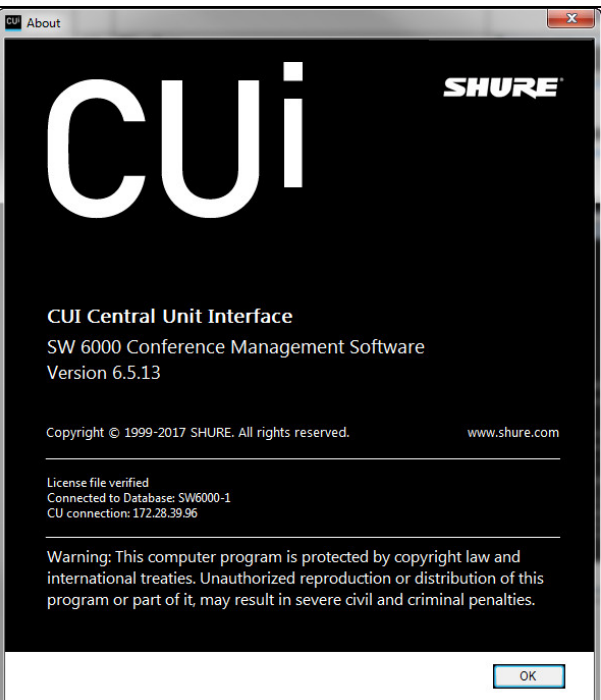
**Hint:** *If the meeting created is supposed to be the default for future meetings then select 'Save as Default'*

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

# 7 Advanced Settings

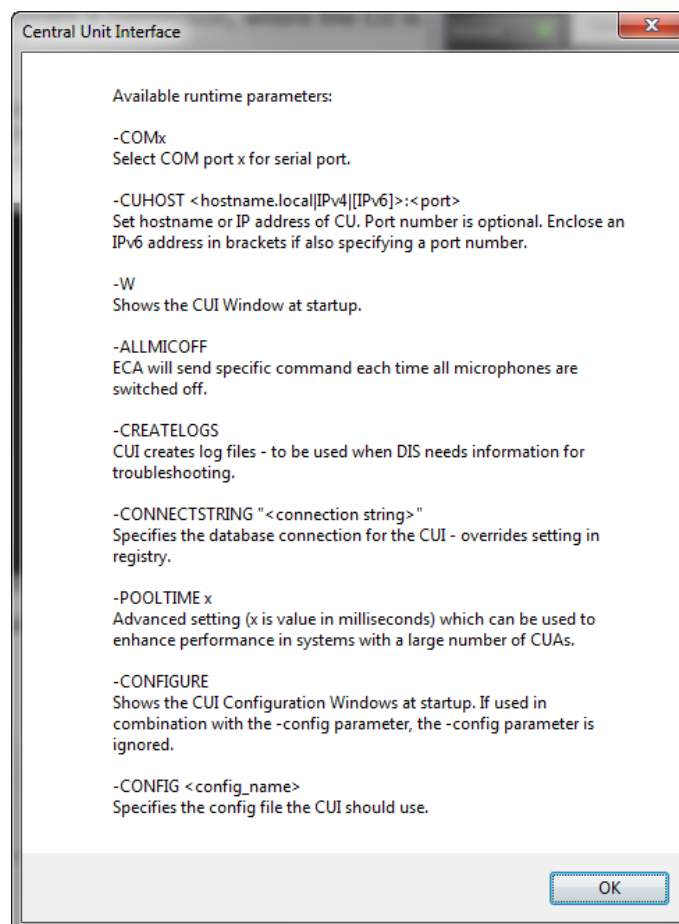
## 7.1 Advanced setting in the CUI

38.	<p>When activating the shortcut 'Configure CUI' in the Start menu the CUI interface opens.</p> <p><b>Connect to CU</b></p> <p><u>Configuration Name</u></p> <p>Different CUI configurations can be made. If a configuration is Added, a shortcut is created on the desktop with the name of the configuration.</p> <p><u>Hostname</u></p> <p>The hostname or IP address can be typed into this field to create a connection, where the CCU is not turned on.</p>	
39.	<p><b>Database</b></p> <p>CUI connections to different databases can be setup. Select 'Add' and give the new configuration a name and make the settings as needed. Select 'Update' to save the new configuration.</p> <p>Previous configurations can be changed by selecting the configuration in the top window, then making the changes and select 'Update'</p>	
40.	<p><b>Options</b></p> <p>The following options are available:</p> <ul style="list-style-type: none"> <li>• Start when the computer starts</li> <li>• Show the CUI window at startup</li> <li>• CUI creates log files</li> </ul> <p>A text field is available for additional options</p>	

41.	<p>When the CUI is started an Icon is visible in the taskbar.</p> <p>Right-clicking the icon brings the option menu.</p>	
42.	<p><b>Display</b></p> <p>Show messages to/from the central unit.</p> <p>This option is typical not selected in normal use.</p>	
43.	<p><b>About</b></p> <p>Shows if the 'License File' is verified and connection details</p>	

### 7.1.1 CUI Command line parameters

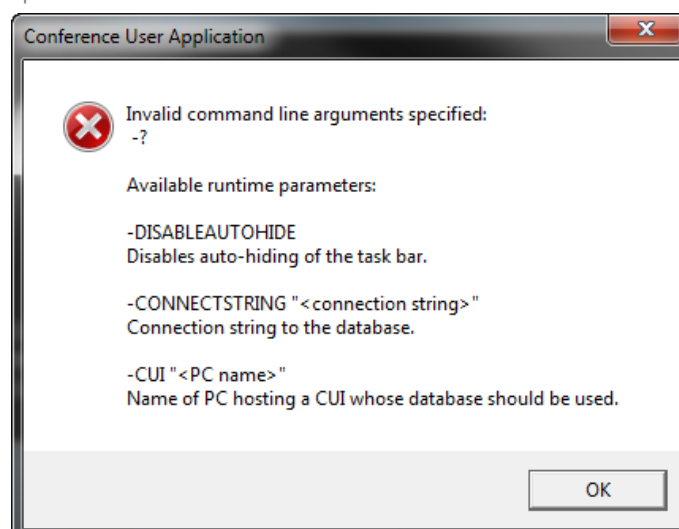
Behaviours for the CUI can in addition to the options in the CUI Interface setup also be applied as a command line parameter in the CUI shortcut. The options are:



**Note:** If a parameter is specified in the 'CONFIG' file, it will have priority over a command line parameter

## 7.2 Advanced settings CUA, CDA and CAA

### 7.2.1 CUA Command line parameters



**-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-chn-  
lap\SW6000;uid=SW6K11;password=HmAeC2005;Timeout=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 specify the console number (xxx).

In 'CAA|Setup|Equipment|Conference Units' the entry will be in the following format: SERVERNAME~xxx like in the following example:

PCCHNIELSEC01~3

**Note:** *This feature can also be used to run multiple CUA's on a PC*

-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

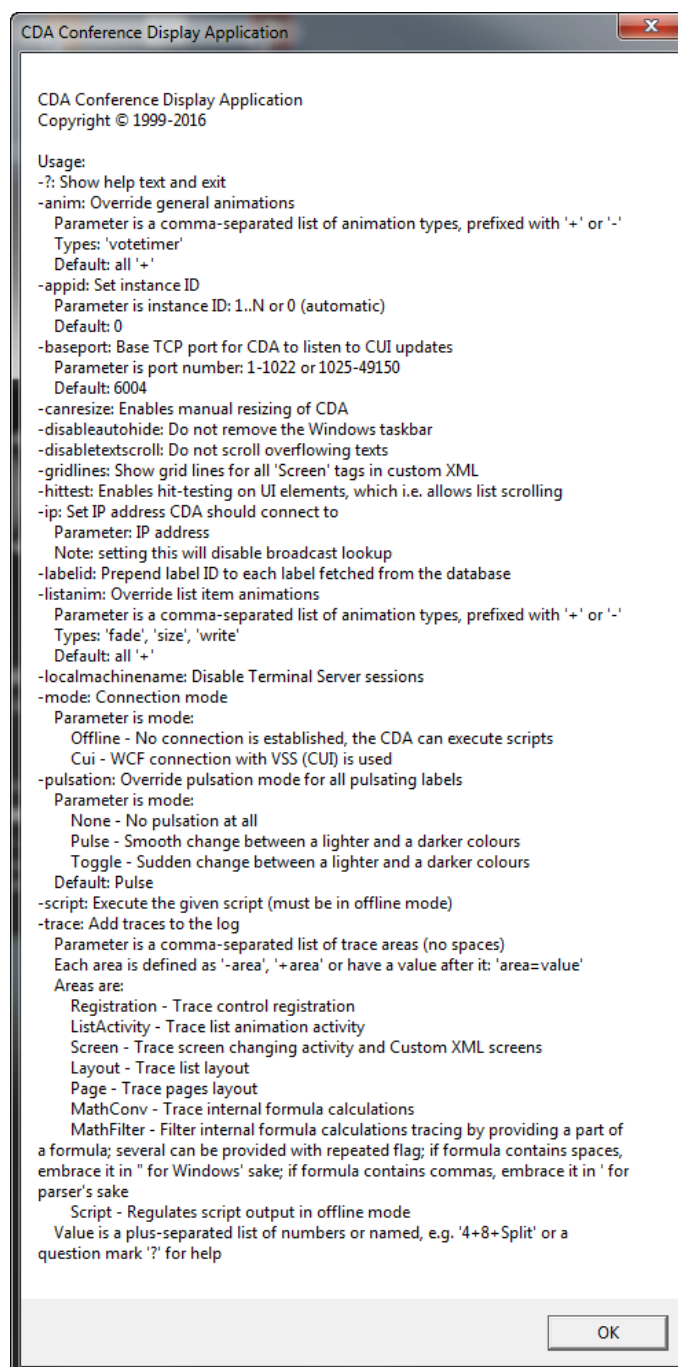
CUA starts up in Layout 3 with min. resolution of 1280 x 800

-HIGHRESOLUTION

CUA starts up in Layout 4 with min. resolution of 1920 x 1080

## 7.2.2 CDA Command line parameters


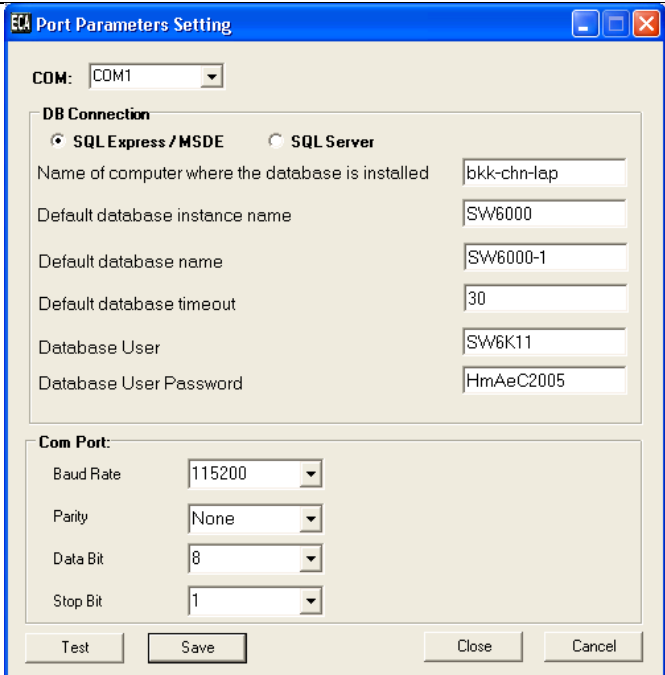
The CDA has a number of command line parameters.



## 7.2.3 CAA Command line parameters

- 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-chn-lap\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 Control Application
45.	Select the 'ECA Interface' shortcut on the desktop	
46.	When starting the 'ECA' the following window appears:  The COM ports, which are configured, will be highlighted.  Insert the Name of the Computer, where the database is installed  Insert the 'Default Database name'  Select 'Save'	

### 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 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

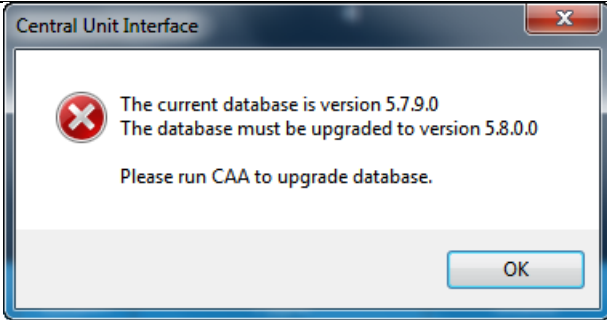
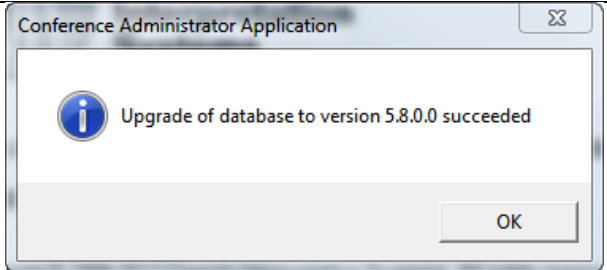
Edit the following entry in the prjCUA.exe.config file located in the CUA executable folder:

```
<setting name='CustomLogoFile' serializeAs='String'>
  <value>xxxxx.png</value>
</setting>
```

The value can include drive and folder name.

## 8 Updating from previous versions

### 8.1 Update

47.	Backup the Database(s) using 'SW6000 Backup Utility'.	
48.	On each PC run the SW6000 Installation and select Advanced Installation and select the Applications, which are installed (CUI, CUA, CAA, ECA and/or CDA) and have to be updated.  Do not select 'SW6000 Database'.	<div> <p><b>Important:</b> An installed database is never 'overwritten' during an upgrade even if it is selected to be installed</p> </div>
49.	If the CUI is started after an update of the Software a message, that the database shall be updated might appear.  Select OK to close the message  Close the CUI	 <p>The screenshot shows a window titled 'Central Unit Interface' with a red 'X' icon. The text inside reads: 'The current database is version 5.7.9.0. The database must be upgraded to version 5.8.0.0. Please run CAA to upgrade database.' There is an 'OK' button at the bottom right.</p>
50.	Start the CAA  Accept to update the database  Select OK to close the message and the CAA will start  Start the CUI	 <p>The screenshot shows a window titled 'Conference Administrator Application' with a blue 'i' icon. The text inside reads: 'Upgrade of database to version 5.8.0.0 succeeded'. There is an 'OK' button at the bottom right.</p>

### 8.2 Updating from MSDE Database Server

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

51.	Backup the Database(s) using 'SW6000 Backup Utility'.
52.	Remove the old installation using 'Control Panel - Add or Remove Programs' in the following order: SW6000 MSDE Installation
53.	Install the applications as explained in the section 'Software Installation'.
54.	Restore the Database using 'SW6000 Backup Utility'.
55.	Start the CAA.  You will be prompted to update the database when the CAA is started the first time after the installation. Accept this and the database will automatically be updated.  Select 'Yes'

56.	The update is now completed. Select 'OK'.
57.	Insert a new SW6000 License file as explained in the section 'License File'
58.	Update other PCs in the system however do not install the <b>SW6000 database</b>

### 8.3 Updating 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 2014 Server Express, you can update as follows

59.	Backup the Database(s) using 'SW6000 Backup Utility'.
60.	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.
61.	Remove the old installation using 'Control Panel - Add or Remove Programs' in the following order: 1. SW6000 2. SQL 2005/2008 Server Express
62.	Install the applications as explained in the section '5.1 'One PC' Installation or first installation in a multi-PC system'.
63.	Restore the Database using 'SW6000 Backup Utility'.
64.	Start the CAA. You will be prompted to update the database when the CAA is started the first time after the installation. Accept this and the database will automatically be updated. Select 'Yes'.
65.	The update on the PC running the database is now completed. Select 'OK'
66.	Update other PCs in the system however do not install the <b>SQL Server 2014 Express</b> on other PC's.

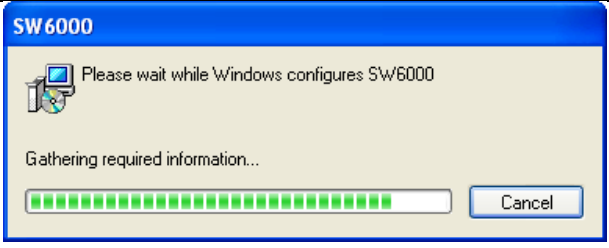
# 9 Un-installing

Normally you will not need to un-install the SQL server however if an un-install is required follow the below instruction carefully:

## 9.1 Un-install SW6000 Applications

The SW6000 applications can be un-installed using the 'Programs and Features' in the Windows 'Control Panel'.

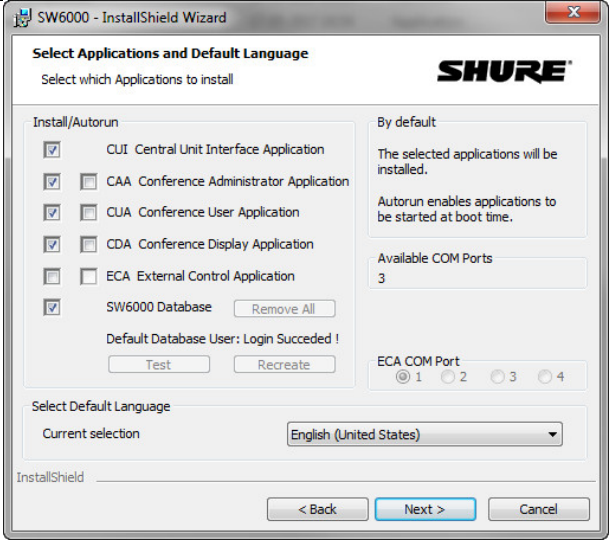
The name of the installation is 'SW6000'.

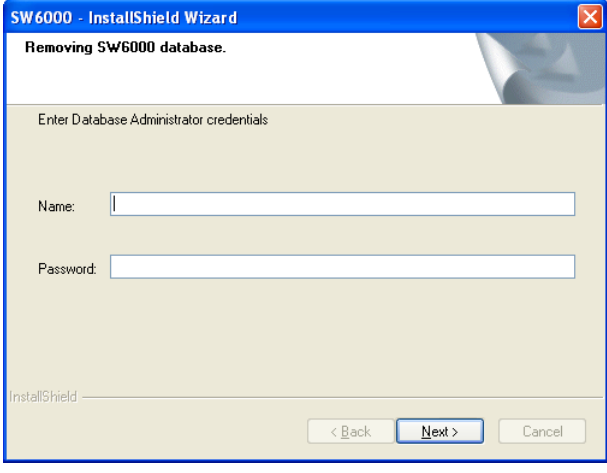
<p>67. To un-install select 'SW6000' in the list of programs and click 'Remove'.</p> <p>All the applications are then removed, except the SW6000 Database and SQL Database Server.</p>	 A Windows-style progress window titled 'SW6000'. It contains a small icon of a computer with a monitor and a progress bar. The text inside says 'Please wait while Windows configures SW6000' and 'Gathering required information...'. There is a 'Cancel' button at the bottom right.
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## 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.

<p>68. Run the SW6000 Setup program and select 'Advanced Installation'.</p> <p>Select 'Remove All'</p>	 A screenshot of the 'SW6000 - InstallShield Wizard' window. The title bar says 'SW6000 - InstallShield Wizard'. The main area is titled 'Select Applications and Default Language'. It has a list of applications to install: CUI Central Unit Interface Application, CAA Conference Administrator Application, CUA Conference User Application, CDA Conference Display Application, ECA External Control Application, and SW6000 Database. The SW6000 Database has a 'Remove All' button next to it. Below the list, it says 'Default Database User: Login Succeeded!' with 'Test' and 'Recreate' buttons. On the right, there's a 'By default' section with text about autorun and a section for 'Available COM Ports' with radio buttons for 1, 2, 3, and 4. At the bottom, there's a 'Select Default Language' section with a dropdown menu showing 'English (United States)'. At the very bottom are '< Back', 'Next >', and 'Cancel' buttons.
--	--

69.	<p>You will be asked to enter Database Administrator credentials.</p> <p>Enter 'sa' in the Name field and 'sw6000-1' in the Password field</p> <p>Select 'Next'</p> <p>The SW6000 Database is now removed.</p> <div data-bbox="205 479 764 600" style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Important:</b> Remember to make backup of the databases. When the databases are removed all meeting data is lost.</p> </div>	
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### 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

After deleting the database the SQL 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.

### 9.2.2 Un-install SQL Express Server

The 'Microsoft SQL Server' can be uninstalled using the 'Programs and Features' in the Windows 'Control Panel', but unless the 'SW6000 Databases' has already been uninstalled, do not uninstall the SQL server. The program is displayed on the list as 'Microsoft SQL Server 20xx'.

## 10 Descriptions of 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 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

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.



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