

DCS 6000



Upgrade Manual

Digital Conference System

DCS 6000 Digital Conference System Firmware Upgrade & Feature License Key Manual

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Introduction

This manual describes the procedure for upgrade/downgrade of the firmware in the various units in the DCS 6000 system.

The manual does also describe how to upload DCS 6000 Feature Licenses into the CU 6005/10/11 Central Unit

Firmware upgrade of a DCS 6000 system

Before you start

Needed equipment is a PC or laptop with a free RS232 port and a serial cable (straight) and the DCS 6000 Firmware Upgrade Utility (FUU) as well as the firmware.

If your laptop does not have an RS232 port a RS232/USB adapter can be used instead. However please note, that the RS232 communication to the CU6010 requires Hardware Handshaking.

General guidelines

Check that all communication in the system is stable before performing updates. **NEVER REMOVE POWER FROM A SYSTEM PERFORMING AN UPDATE.**

Errors in the update procedure may render the sets unusable until a JTAG based update (only possible at DIS) using special equipment is performed, so don't update a system just before a critical conference if you have no spare equipment.

If for some reason the update fails for one or more units but power has not been removed it's usually possible to do the update again and units that did not correctly update the first time will continue where they stopped the second time around.

Compatibility

The DIS web site has information about compatibility and upgradeability. If you are in doubt please consult DIS Product Support at the e-mail: productsupport@dis.cc.

Locked units

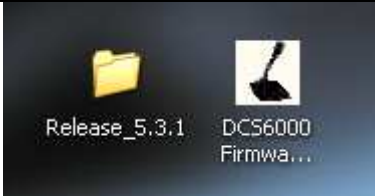

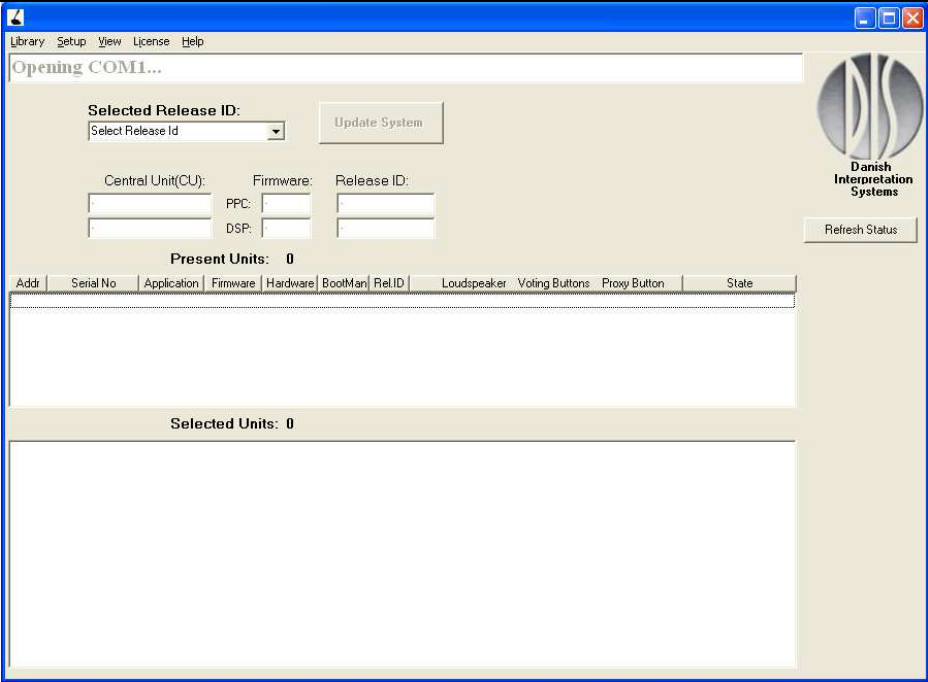
If a unit displays the message "Locked" in the LCD display, then the firmware version in the unit is not compatible with the firmware in the Central Unit and the firmware in the unit has to be upgraded/downgraded..


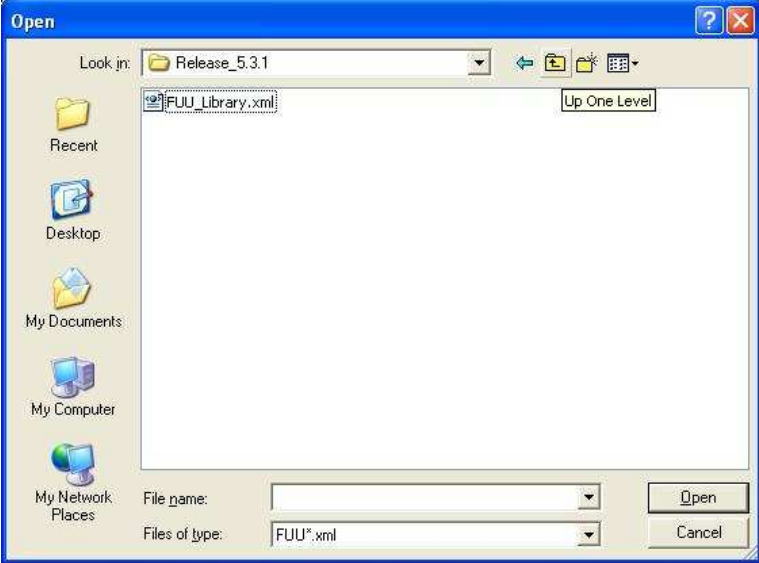

Firmware Upgrade Utility (FUU)

The DCS 6000 ‘Firmware Upgrade Utility’ (FUU) and Firmware Releases can be downloaded from www.dis.cc /Distributor section. **Do always use the latest version of the FUU.**

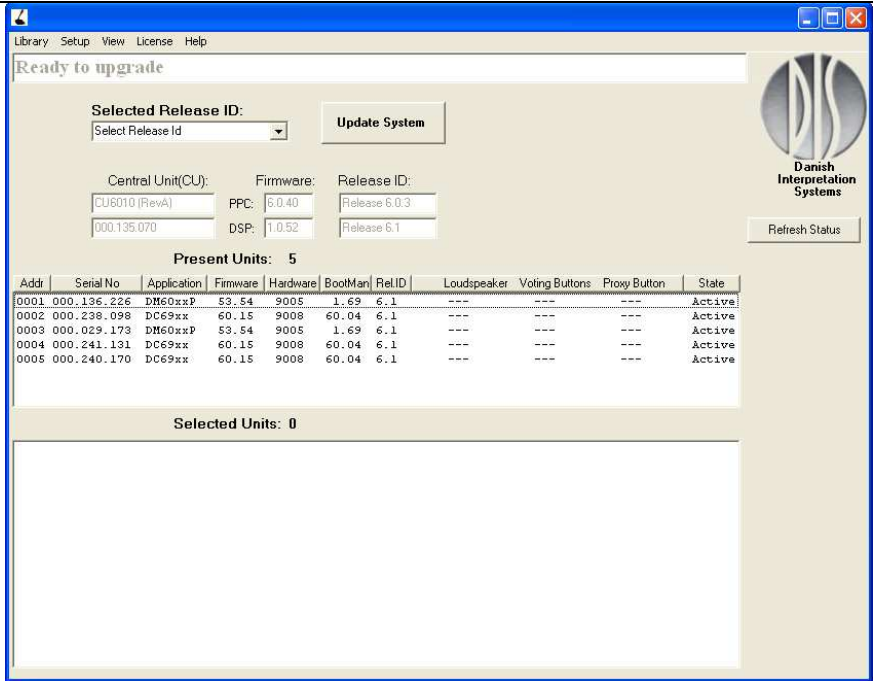
If you are not a distributor please contact your local distributor for getting the latest versions.

How to upgrade/downgrade a DCS 6000 System

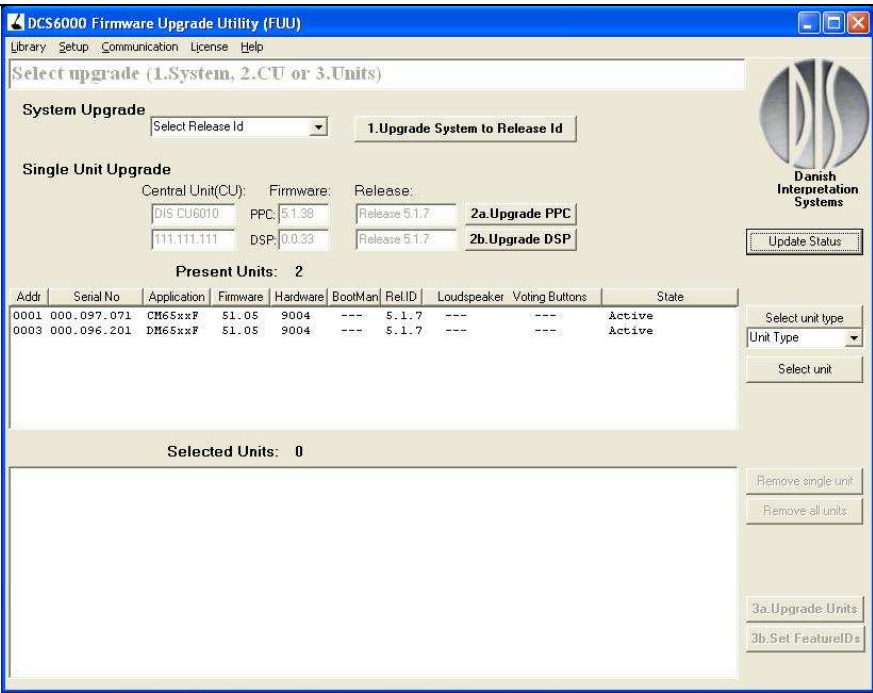
1	Unzip the zip file containing the Firmware Releases and the FUU Utility to the Desktop or another convenient place at the PC or Desktop	
2	Connect the laptop to the CU 6010 using the RS 232 serial interface cable and switch ON the CU 6010	
3	Start DCS 6000 Firmware Upgrade Utility (FUU) by clicking the Icon.	
4	The Utility starts	

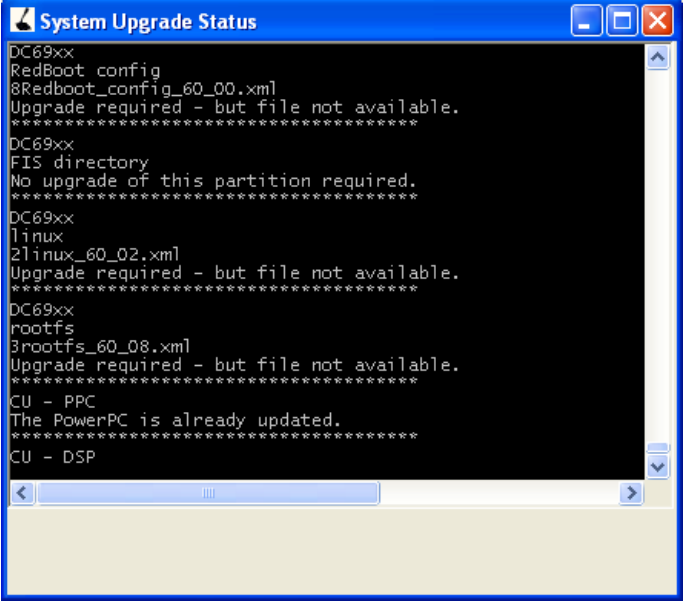

<p>5 After the utility is started, you may be notified the 'FUU_Library.XML' is missing.</p> <p>Click OK</p>	
<p>6 Click 'Library/Select Library'.</p> <p>A dialog box will appear.</p> <p>Browse to the 'Release 5.3.x folder'.</p> <p>Select 'FUU_Library.XML' and click 'Open'</p>	
<p>7 Check the Com setting by clicking Setup/Serial Port.</p> <p>Select the COM port in Use and click OK</p>	

8 The FUU will now show all units in the system as well as information about the Central Unit



9 **System Upgrade**
 Select the Firmware Release in the dropdown window 'Select Release Id' and click 'Upgrade System'. The update will then be performed automatically.

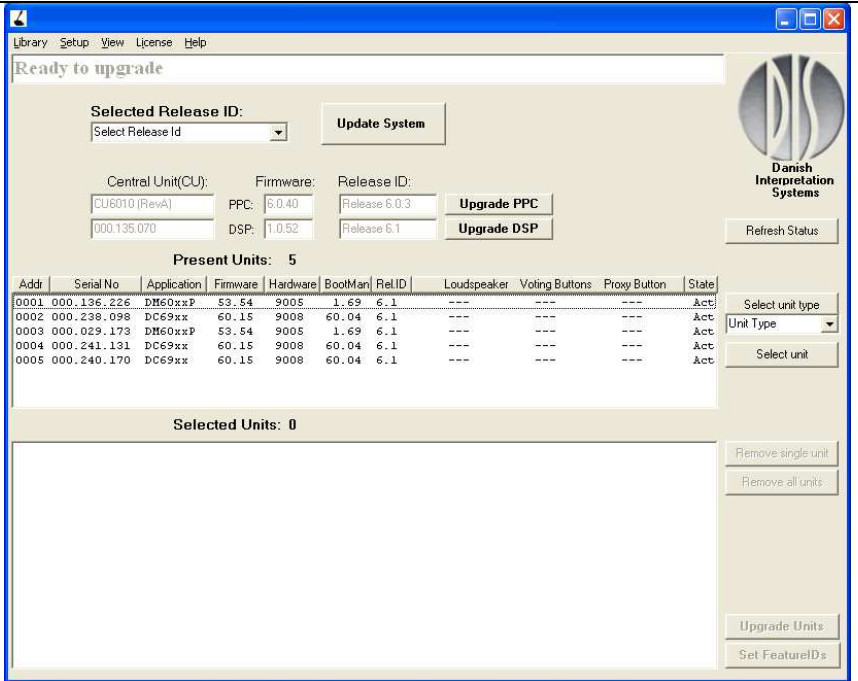


<p>10 The popup 'System Upgrade Status' will show the progress of the firmware upgrade.</p> <p>The upgrade will take approximately 5 minutes pr. unit type.</p>	 <pre> System Upgrade Status DC69xx RedBoot config 8Redboot_config_60_00.xml Upgrade required - but file not available. ***** DC69xx FIS directory No upgrade of this partition required. ***** DC69xx linux 2linux_60_02.xml Upgrade required - but file not available. ***** DC69xx rootfs 3rootfs_60_08.xml Upgrade required - but file not available. ***** CU - PPC The PowerPC is already updated. ***** CU - DSP </pre>
<p>11 After upgrade of the system the 'Upgrade status log' will close automatically and the popup 'License key in the CU is missing' might show. This depends of the selected Firmware Release.</p> <p>This popup indicates that the CU will have basic functionality only.</p> <p>If extended functionality is needed a license key enabling further functionality shall be imported to the CU.</p> <p>Please see next section.</p>	 <pre> Warning License key in the CU is missing!!! CU functionality is restricted [Ok] Danish Interpretation Systems </pre>

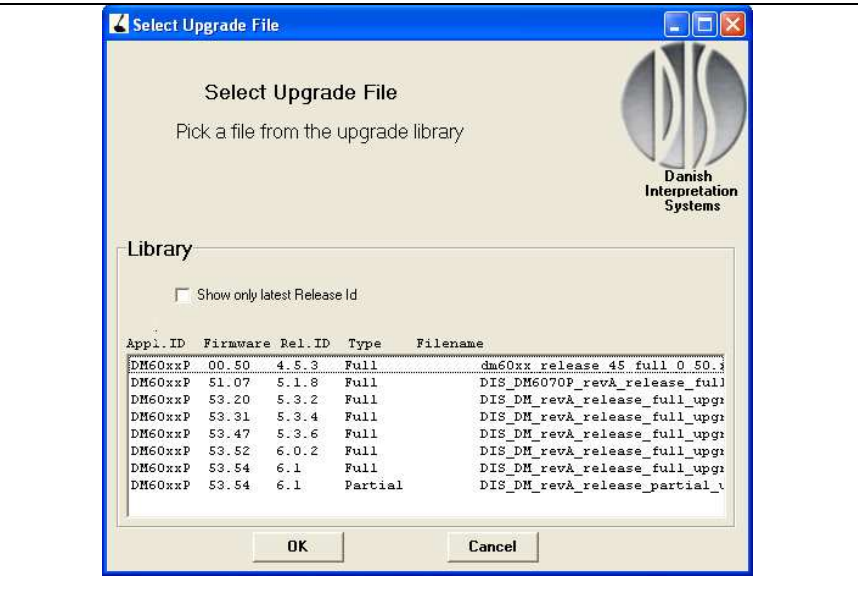
How to upgrade/downgrade single units

If one or several units are to be upgraded or downgraded for service purpose or for adding some units to an old installation the advanced option of the FUU has to be selected. However this option is only recommended for experienced users

1 Click 'Setup' and select 'Advanced FUU Layout'
 The advanced layout is now shown.
 Single Unit Upgrade can either be performed by selecting the CU PPC or CU DSP and then clicking "Upgrade xxx" or by selecting single units and clicking "Upgrade Units"



2 The available upgrade files sorted in Releases will then be available.
 Select the Firmware version/Release ID and click OK
 The units will now be upgraded/downgraded.



License key

The CU 60XX Central Unit will as standard only have basic functionality. By obtaining further licenses, the functionality can be expanded to include further functionality like:

- More Conference Units
- More Interpreter Channels
- Voting option
- Voice Activation
- Secure audio transmission
- 3 part voting control using RS232 port on CU 60XX

The file with the License key is delivered as a zipped file from your authorised DIS Distributor or Dealer.


Before you start

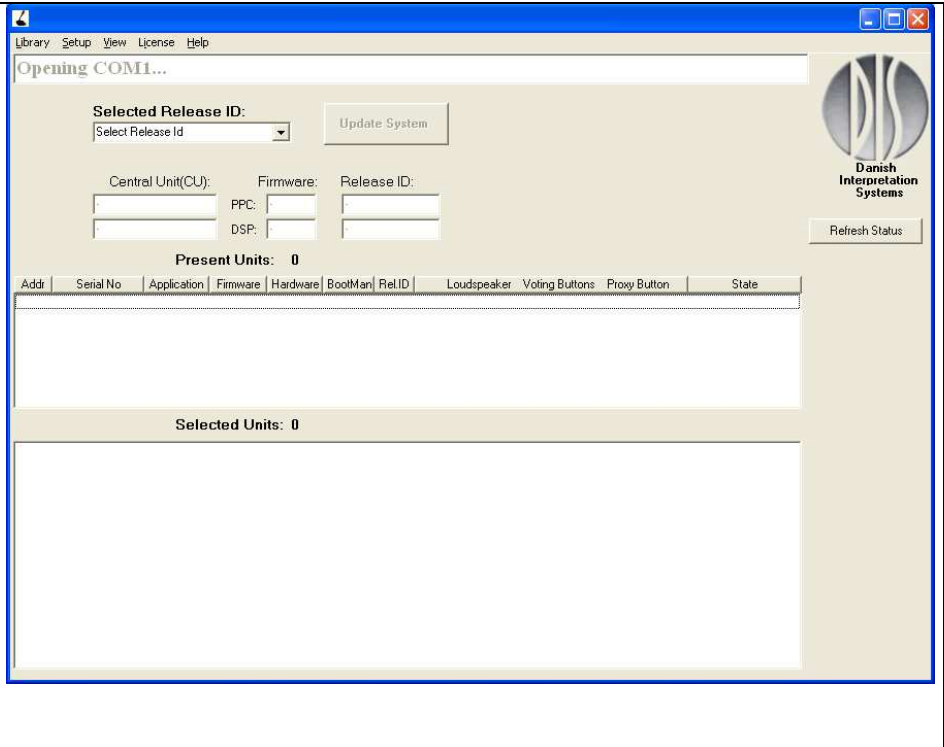


Needed equipment is a PC or laptop with a free RS232 port and a serial cable (straight) and the DCS 6000 Firmware Upgrade Utility (FUU).

The DCS 6000 Firmware Upgrade Utility (FUU) will be found on the Product CD following the CU 60XX. The utility can also be acquired at an authorised DIS Distributor or Dealer.

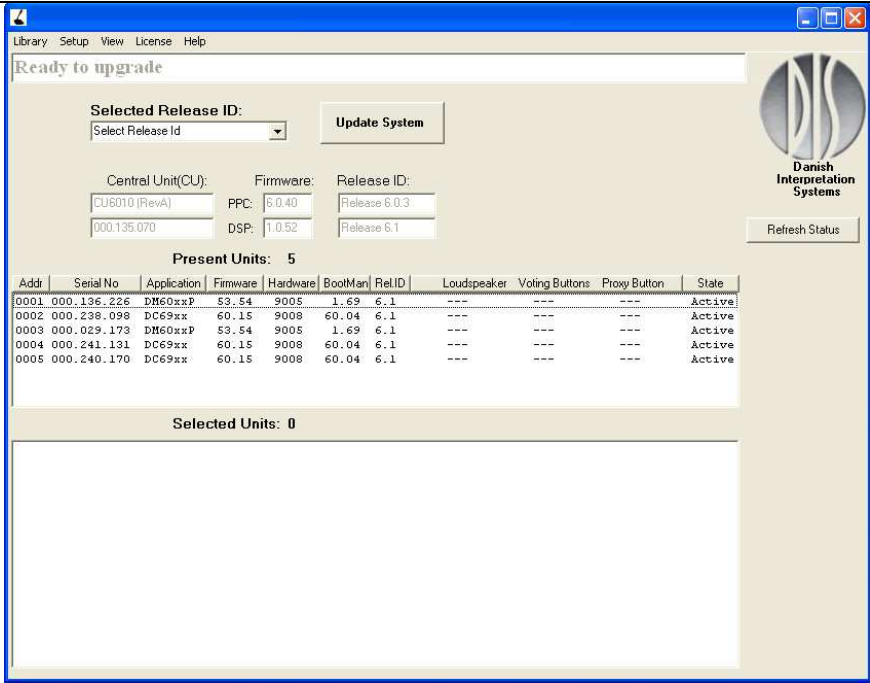
If your laptop does not have an RS232 port a RS232/USB adapter can be used instead. However please note, that the RS232 communication to the CU 60XX requires hardware handshaking.

How to import a License key

1	Unzip the zip file containing the Licence Key to the Desktop or another convenient place at the PC or Desktop	
2	Connect the laptop to the CU 60XX using the RS 232 serial interface cable and switch ON the CU 60XX	
3	Start DCS 6000 Firmware Upgrade Utility (FUU) by clicking the Icon.	 DCS6000 Firmware Upgrade Utility.exe

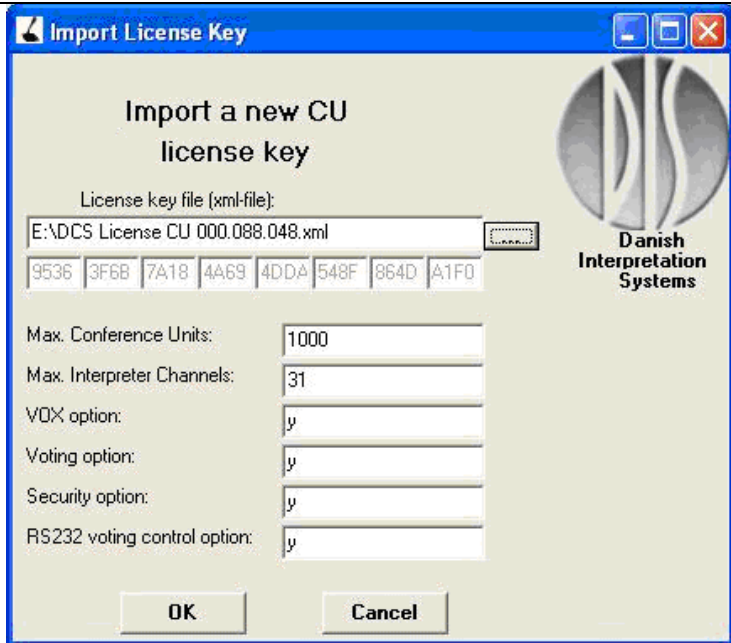
<p>4</p>	<p>The Utility starts</p>	
<p>5</p>	<p>After the utility is started, you may be notified the 'FUU_Library.XML' is missing. This library is <u>not needed</u> for importing a License key. Click OK</p>	
<p>6</p>	<p>Check the Com setting by clicking Setup/Serial Port. Select the COM port in Use and click OK</p>	

7 The FUU will now show all units in the system as well as the information of the Central Unit.
The S/N of the Central Units is also shown.



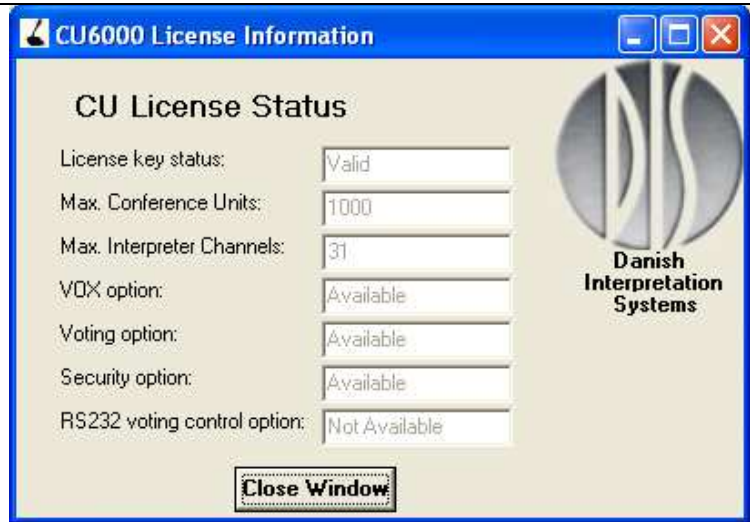
8 Click 'License' and select 'Import new CU License key'

9 The popup 'Import License key' will now show.
Use the browse button to select the License Key file
Press OK.
The new license key will then be imported.
After successfully having imported the license key, you may be notified to restart the CU 60xx.
Note:
The information fields will show the functionality included in the license key



View CU License Status

1 Click 'License' and select 'View CU License Status'




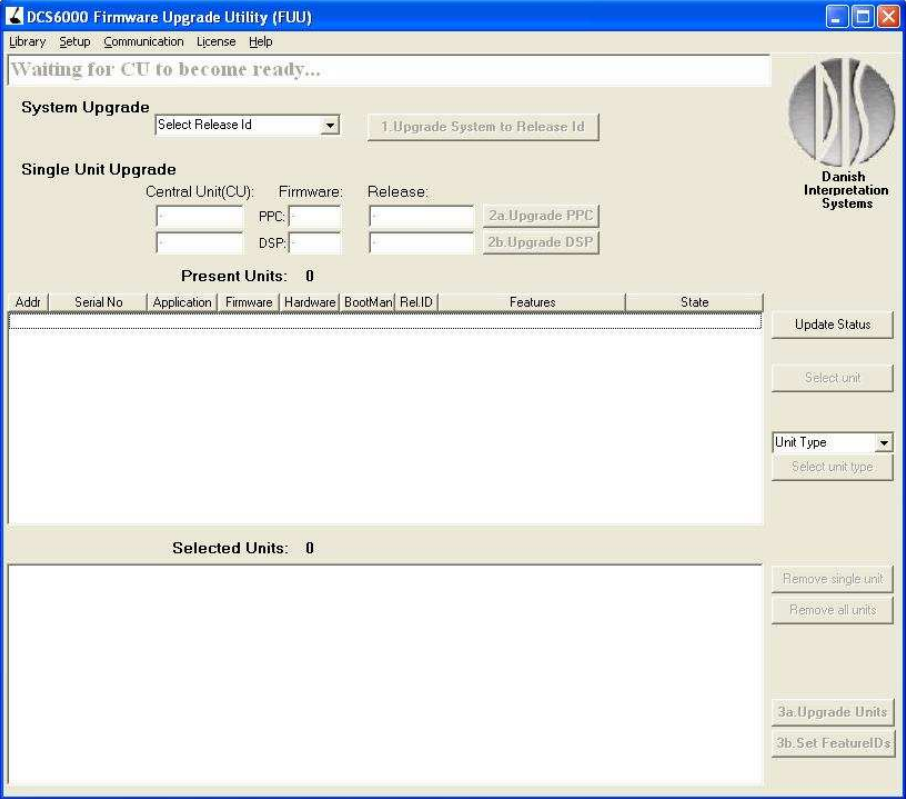
Feature ID

For some units it is possible to set (or change) a hardware feature Id.

It is possible to enable/disable the use of the loudspeaker in the conference units.

It is especially important when using MU 604x units in voice active mode. If this mode will be used it is therefore advisable to enable/disable the use of the loudspeaker depending on if the loudspeaker is in use not.

How to set Feature Id

1	Connect the laptop to the CU 6010 using the RS 232 serial interface cable and switch ON the CU 6010	
2	Start DCS 6000 Firmware Upgrade Utility (FUU) by clicking the Icon.	 <p>DCS6000 Firmware Upgrade Utility.exe</p>
3	The Utility starts	

<p>4 The FUU will now show all units in the system as well as Central Unit</p>	
<p>5 Select the unit(s) where you want to change the feature Id. using the “Select unit type” or “Select unit” button.</p>	
<p>6 Click “3B Set FeatureID” button to open the “Setup features” popup. Select the value (Present / Not Present) for the loudspeaker and click OK. The new feature setting will now apply.</p>	

Buttons and windows in the FUU

'Upgrade CU firmware buttons'
 Press those buttons to upgrade the firmware in the CU: 'Upgrade PPC' & 'Upgrade DSP'.

'Update status button'
 Press this buttons to update the status of the units connected

'Command line' button
 Press this Icon to get a window for sending commands to the CU

'Status window'
 This window shows the status and give messages to the user

'CU window'
 Those windows shows 'Type', 'Serial number' & 'Firmware version' ('PPC' & 'DSP' version) of the CU.

'Present Units window'
 All units present in the system are

'Selected Units window'
 Unit, which are selected for upgrading are shown in this window

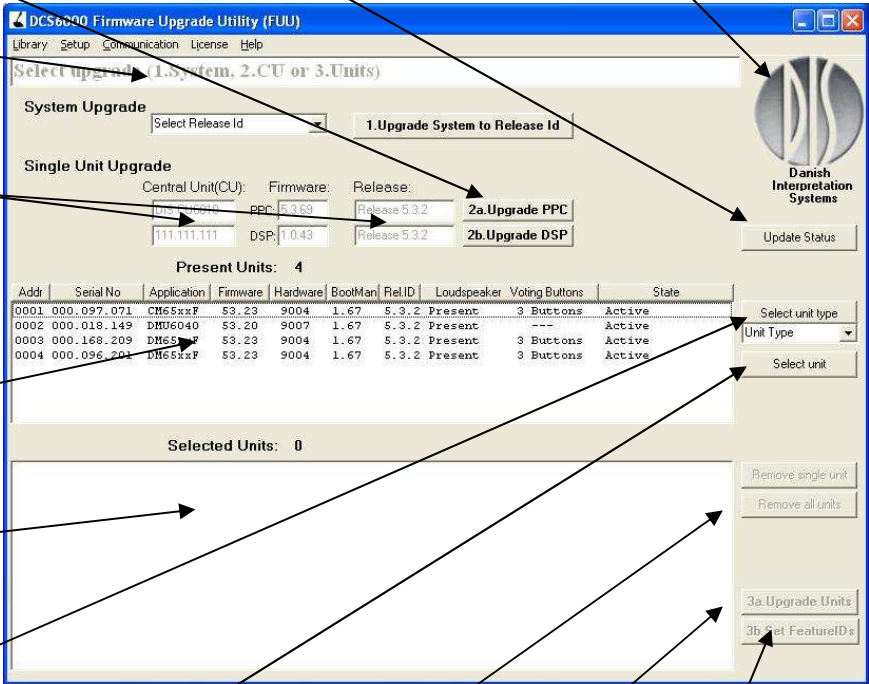
"Select unit type" button
 Press this buttons to add all units of the type of units selected in the drop down window.

"Select unit" buttons
 Select one of the units in the 'Present Units window' and press the 'Add unit button' to add 'Selected Units window'.

'Remove buttons'
 Press those buttons to either remove a selected unit or to remove all units from the 'Selected Units window'

'3a Upgrade Units button'
 Press this button to upgrade the units present in the 'Selected Units window'

'3b Set Feature Id'
 Press this button change the Feature setting for the selected units



Check 'DIS-LAN' commands

Commands for CU

The following list summarises some useful commands in case problems with the cables occurs:

AIB:	Auto input test
AOB:	Auto output test
ERC:	List errors received. After the list of error counts has been printed. If the command name is followed by a '!' the counters are reset.
ERD:	Checking error received on the CU
EU:	Errors on units

All these commands can be typed in at the command prompt in the 'Command line' (click 'View/View Communication' in the FUU).

If error are present, the cables must be checked.