

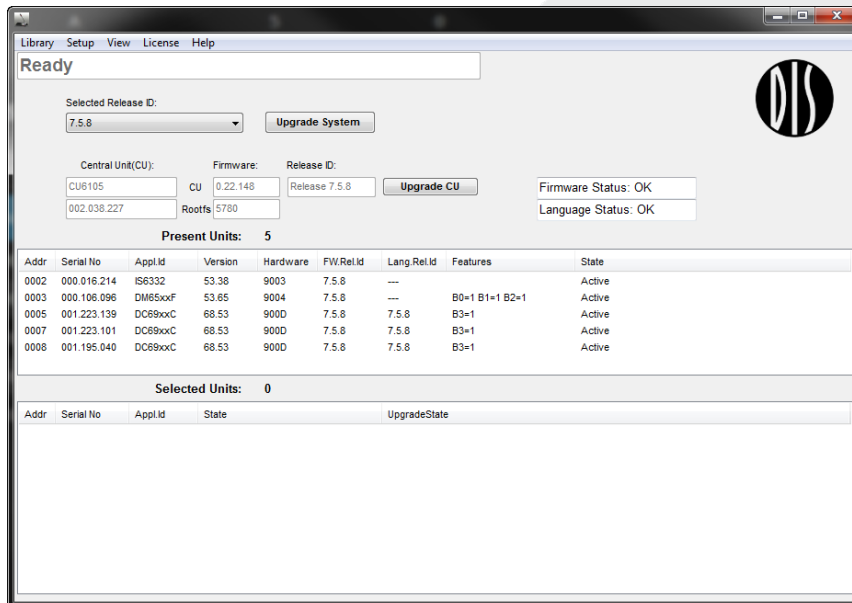


LEGENDARY  
PERFORMANCE™

Conferencing and Discussion Systems

# DDS 5900 Firmware

## Upgrade Manual



---

# Table of Contents

<b>Table of Contents .....</b>	<b>2</b>	<b>Firmware Upgrade Utility (FUU).....</b>	<b>5</b>
<b>Introduction .....</b>	<b>3</b>	<b>How to upgrade .....</b>	<b>6</b>
<b>Buttons and windows in the FUU.....</b>	<b>4</b>	<b>Check 'DIS-LAN' communication.....</b>	<b>8</b>
<b>Firmware upgrade of DDS 5900.....</b>	<b>5</b>	<b>Checking using 'Error Status' window...</b>	<b>8</b>
<b>Before you start.....</b>	<b>5</b>	<b>Advanced test .....</b>	<b>9</b>
<b>General guidelines.....</b>	<b>5</b>	<b>In case of errors in the communication</b>	<b>9</b>
<b>Compatibility .....</b>	<b>5</b>		

---

# Introduction

This manual describes the procedure for upgrading the firmware in the DDS 5900 system.

**Note:** The upgrade utility 'DCS 6000 Firmware Upgrade Utility' (FUU) is used for both the DDS 5900 System and the DCS 6000 System.

And the procedure for upgrading the DDS 5900 system is the same as for the DCS 6000 system.

This manual is therefore a condensed version of the 'Upgrade Manual DCS 6000' omitting descriptions of facilities which are not relevant for the DDS 5900 system.

# Buttons and windows in the FUU

## '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

## 'CU window'

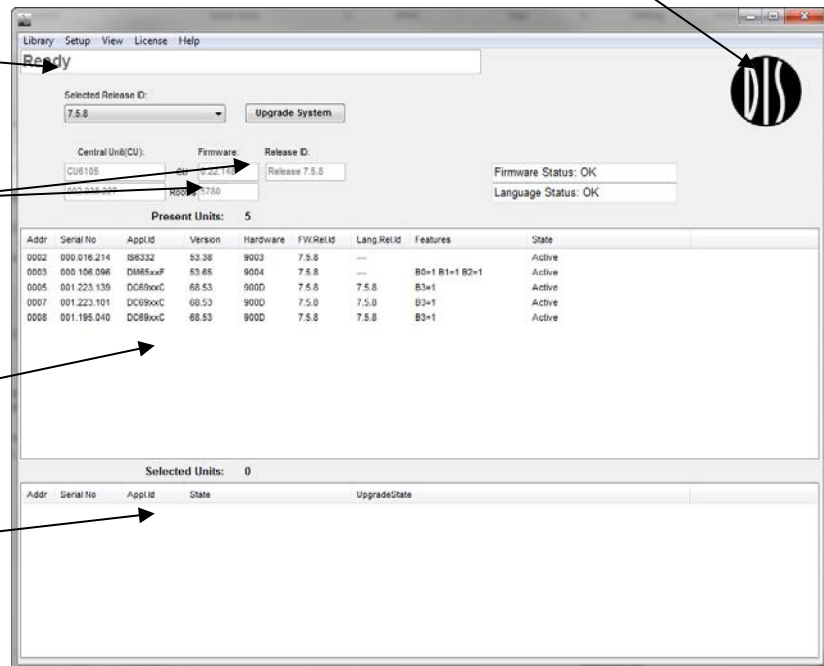
Those windows shows 'Type', 'Serial number' & 'Firmware version' ('PPC' & 'DSP' version) of the CU.

## 'Present Units window'

All units present in the

## 'Selected Units window'

Unit, which are selected for upgrading are shown in this



# Firmware upgrade of DDS 5900

## Before you start

The following equipment is needed:

- A PC with LAN port for CU 5905
- The DCS 6000 Firmware Upgrade Utility (FUU)
- The FUU\_Upgrade\_Library

## General guidelines

Check that all communication in the system is stable before performing updates.

**IMPORTANT: NEVER REMOVE POWER FROM A SYSTEM PERFORMING AN UPDATE.**

Errors in the update procedure may render the units unusable.

If for some reason the update fails for one or more units but power has not been removed it is

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 Shure Conferencing Support by e-mail: [conferencingsupport@shure.dk](mailto:conferencingsupport@shure.dk)

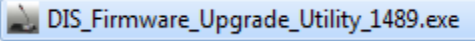
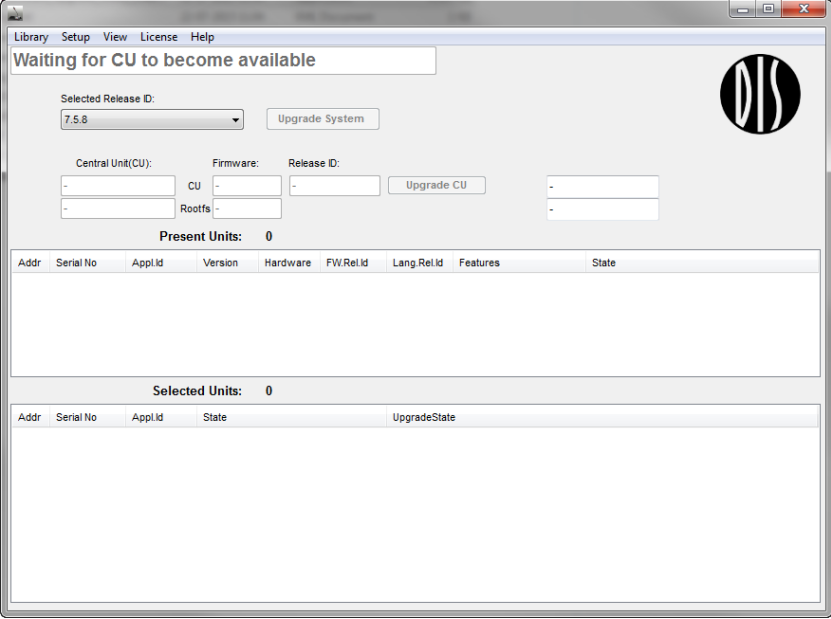
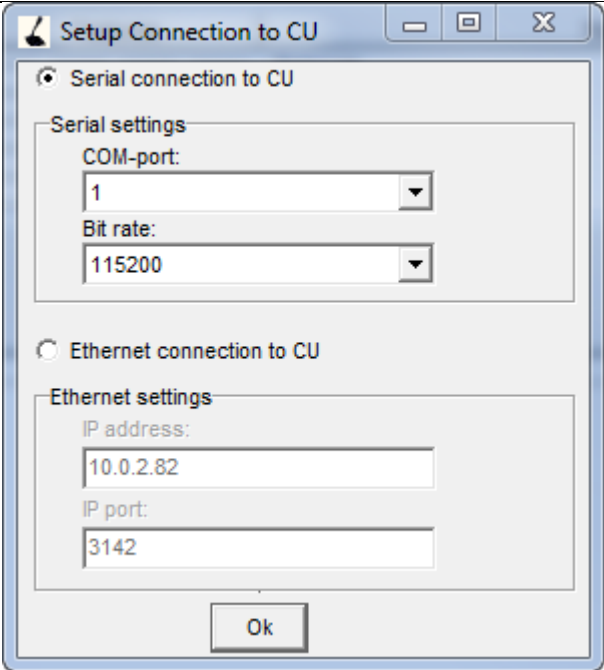
## Firmware Upgrade Utility (FUU)

The DCS 6000 'Firmware Upgrade Utility' (FUU) and Firmware Releases can be downloaded from the Partner section at [www.dis.cc](http://www.dis.cc).

**IMPORTANT: Always use the latest version of the FUU.**

If you are not a Partner then please contact your local Partner for getting the latest version.

## How to upgrade

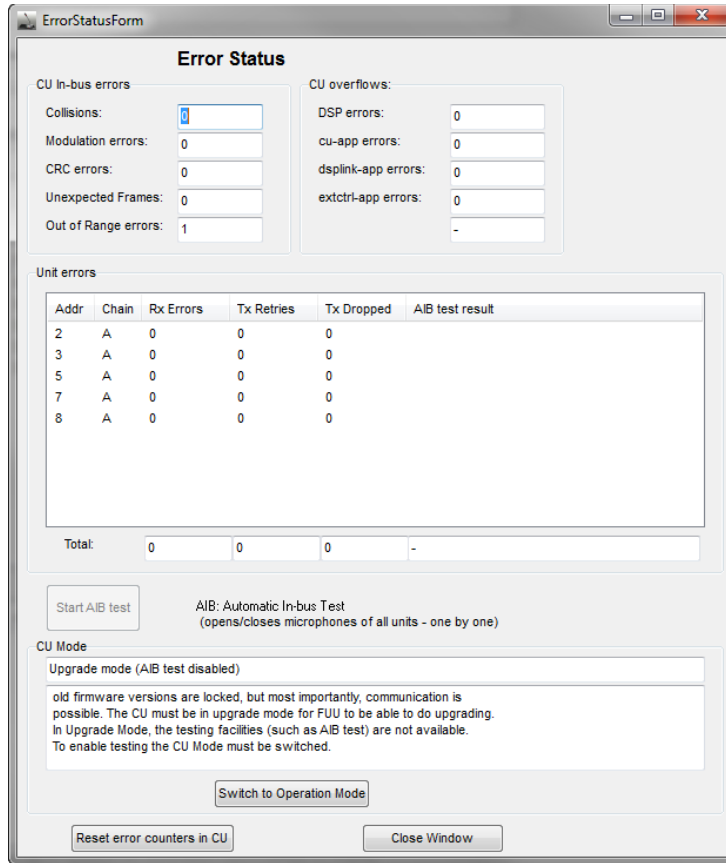
<p>1.</p>	<p>Unzip the zip file containing a Firmware Upgrade Library folder and a FUU folder to the desktop or another convenient location on the PC.</p>	
<p>2.</p>	<p>Connect the PC to the CU 5905 using a LAN</p>	
<p>3.</p>	<p>Browse to the folder 'DIS_Firmware_Upgrade_Utility_xx' And open the folder</p>	
<p>4.</p>	<p>Start DIS Firmware Upgrade Utility (FUU) in the FUU folder by double-clicking the icon.</p>	
<p>5.</p>	<p>The FUU starts The FUU application will automatically find the folders with the firmware releases and the language files.</p>	
<p>6.</p>	<p>Select Ethernet connection. Type the CU IP address in IP address field. Use IP port 3142.</p>	

<p>7. The FUU will now show all units in the system as well as information about the CU.</p>		<p>Library Setup View License Help Ready</p> <p>Selected Release ID: 7.5.8 Upgrade System</p> <p>Central Unit(CU): CU6105 CU 0.22.148 Release ID: Release 7.5.8 Upgrade CU 002.038.227 Rootfs 5780</p> <p>Firmware Status: O Language Status: C</p> <p>Present Units: 8</p> <table border="1"> <thead> <tr> <th>Addr</th> <th>Serial No</th> <th>ApplId</th> <th>Version</th> <th>Hardware</th> <th>FW.RelId</th> <th>Lang.RelId</th> <th>Features</th> <th>State</th> </tr> </thead> <tbody> <tr> <td>0001</td> <td>001.084.118</td> <td>DM_vox</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td></td> <td>Unreg</td> </tr> <tr> <td>0002</td> <td>000.016.214</td> <td>IS6332</td> <td>53.38</td> <td>9003</td> <td>7.5.8</td> <td>---</td> <td></td> <td>Active</td> </tr> <tr> <td>0003</td> <td>000.106.096</td> <td>DM65xxF</td> <td>53.65</td> <td>9004</td> <td>7.5.8</td> <td>---</td> <td>B0=1 B1=1 B2=1</td> <td>Active</td> </tr> <tr> <td>0004</td> <td>000.106.107</td> <td>DM65r66</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td></td> <td>Unreg</td> </tr> <tr> <td>0005</td> <td>001.223.139</td> <td>DC69xxC</td> <td>68.53</td> <td>900D</td> <td>7.5.8</td> <td>7.5.8</td> <td>B3=1</td> <td>Active</td> </tr> </tbody> </table> <p>Selected Units: 0</p> <table border="1"> <thead> <tr> <th>Addr</th> <th>Serial No</th> <th>ApplId</th> <th>State</th> <th>UpgradeState</th> </tr> </thead> <tbody> </tbody> </table>	Addr	Serial No	ApplId	Version	Hardware	FW.RelId	Lang.RelId	Features	State	0001	001.084.118	DM_vox	---	---	---	---		Unreg	0002	000.016.214	IS6332	53.38	9003	7.5.8	---		Active	0003	000.106.096	DM65xxF	53.65	9004	7.5.8	---	B0=1 B1=1 B2=1	Active	0004	000.106.107	DM65r66	---	---	---	---		Unreg	0005	001.223.139	DC69xxC	68.53	900D	7.5.8	7.5.8	B3=1	Active	Addr	Serial No	ApplId	State	UpgradeState
Addr	Serial No	ApplId	Version	Hardware	FW.RelId	Lang.RelId	Features	State																																																					
0001	001.084.118	DM_vox	---	---	---	---		Unreg																																																					
0002	000.016.214	IS6332	53.38	9003	7.5.8	---		Active																																																					
0003	000.106.096	DM65xxF	53.65	9004	7.5.8	---	B0=1 B1=1 B2=1	Active																																																					
0004	000.106.107	DM65r66	---	---	---	---		Unreg																																																					
0005	001.223.139	DC69xxC	68.53	900D	7.5.8	7.5.8	B3=1	Active																																																					
Addr	Serial No	ApplId	State	UpgradeState																																																									
<p>8. <b>System Upgrade</b> Select the Firmware Release in the 'Selected Release Id' drop-down list and press 'Upgrade System'.</p>		<p>Library Setup View License Help Ready</p> <p>Selected Release ID: 7.4.4 Upgrade System</p> <p>Central Unit(CU): CU6105 CU 0.22.148 Not determined Upgrade CU 002.038.227 Rootfs 5780</p> <p>Firmware Upgrade I Language Status: C</p> <p>Present Units: 8</p> <table border="1"> <thead> <tr> <th>Addr</th> <th>Serial No</th> <th>ApplId</th> <th>Version</th> <th>Hardware</th> <th>FW.RelId</th> <th>Lang.RelId</th> <th>Features</th> <th>State</th> </tr> </thead> <tbody> <tr> <td>0001</td> <td>001.084.118</td> <td>DM_vox</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td></td> <td>Unreg</td> </tr> <tr> <td>0002</td> <td>000.016.214</td> <td>IS6332</td> <td>53.38</td> <td>9003</td> <td>---</td> <td>---</td> <td></td> <td>Active</td> </tr> <tr> <td>0003</td> <td>000.106.096</td> <td>DM65xxF</td> <td>53.65</td> <td>9004</td> <td>---</td> <td>---</td> <td>B0=1 B1=1 B2=1</td> <td>Active</td> </tr> <tr> <td>0004</td> <td>000.106.107</td> <td>DM65r66</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td></td> <td>Unreg</td> </tr> <tr> <td>0005</td> <td>001.223.139</td> <td>DC69xxC</td> <td>68.53</td> <td>900D</td> <td>---</td> <td>---</td> <td>B3=1</td> <td>Active</td> </tr> </tbody> </table> <p>Selected Units: 0</p> <table border="1"> <thead> <tr> <th>Addr</th> <th>Serial No</th> <th>ApplId</th> <th>State</th> <th>UpgradeState</th> </tr> </thead> <tbody> </tbody> </table>	Addr	Serial No	ApplId	Version	Hardware	FW.RelId	Lang.RelId	Features	State	0001	001.084.118	DM_vox	---	---	---	---		Unreg	0002	000.016.214	IS6332	53.38	9003	---	---		Active	0003	000.106.096	DM65xxF	53.65	9004	---	---	B0=1 B1=1 B2=1	Active	0004	000.106.107	DM65r66	---	---	---	---		Unreg	0005	001.223.139	DC69xxC	68.53	900D	---	---	B3=1	Active	Addr	Serial No	ApplId	State	UpgradeState
Addr	Serial No	ApplId	Version	Hardware	FW.RelId	Lang.RelId	Features	State																																																					
0001	001.084.118	DM_vox	---	---	---	---		Unreg																																																					
0002	000.016.214	IS6332	53.38	9003	---	---		Active																																																					
0003	000.106.096	DM65xxF	53.65	9004	---	---	B0=1 B1=1 B2=1	Active																																																					
0004	000.106.107	DM65r66	---	---	---	---		Unreg																																																					
0005	001.223.139	DC69xxC	68.53	900D	---	---	B3=1	Active																																																					
Addr	Serial No	ApplId	State	UpgradeState																																																									
<p>9. A 'System Upgrade Status' window will appear and show the progress of the firmware upgrade.  The upgrade will take approximately 5 minutes pr. unit type.</p>		<p>System Upgrade Status</p> <pre> ***** DM6680 DirectC No upgrade of this partition required. ***** DM6680 FPGASafeImage No upgrade of this partition required. ***** DM6680 FPGAImage No upgrade of this partition required. ***** CU - PPC The PowerPC is already updated. ***** CU - DSP The CU DSP is already updated. ***** Upgrade complete ***** </pre>																																																											

# Check 'DIS-LAN' communication

## Checking using 'Error Status' window

The error in the communication to the CU can be checked clicking 'View/View Error status Window':



Basically this window shall show no errors in the system. However in large system, there might be generated some error during start-up. You can reset the error counter by clicking 'Reset error counters in CU'. After resetting the counters, no error must be present. If a counter is counting up, it is a clear indication, that there are communication errors.

**IMPORTANT: DON'T DO ANY UPGRADE IF THERE ARE ERRORS IN THE COMMUNICATION.**

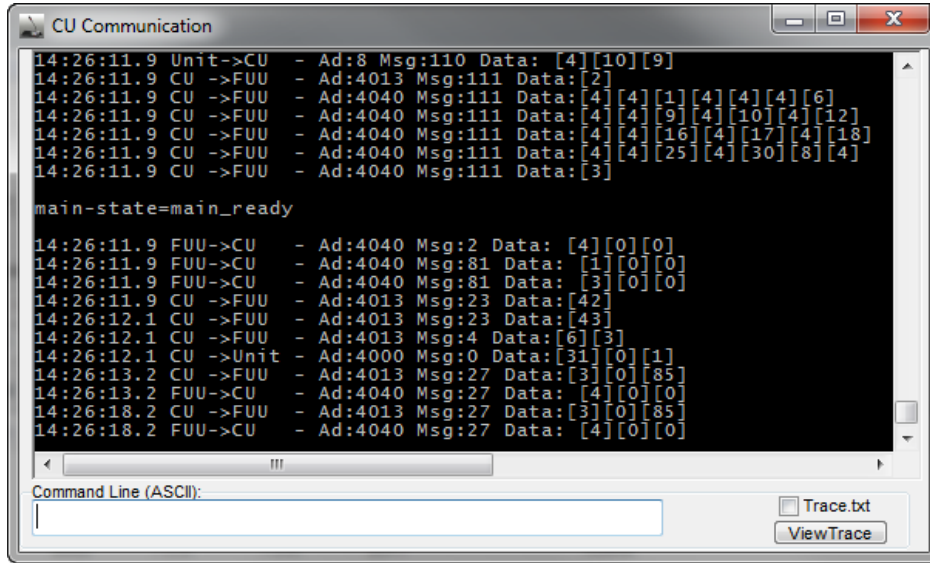
If units are to be checked click the 'Switch to Operation Mode' and then perform an AIB, Automatic In-bus test.

The result must be 'OK' for all units.



## Advanced test

When clicking 'View/View Communication Window' a window showing all communication to the CU opens.



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

Command	Description
avr	Automatic Version Request
dve	Display Version
erc	Errors on CU List errors received. After the list of error counts has been printed. If the command name is folowed by a '!' the counters are reset.
erd	Error Received In Detail Checking error received on the CU
lic	License Info
reset	Reset
ru	Reset Unit - soft/hard
seatnames	List Seat Names
seats	List Seat definitions

sm0	Disable monitoring
sm1	Normal monitoring speed
ucc	Display Units With Chip card
uco	Display Units Connected

### In case of errors in the communication

If errors are present, fault-finding must be done. The error can be one or more of the following:

1. Defective cable
2. One plug on the cable not inserted all the way into the socket in the unit.
3. Contaminated plug/socket
4. Defective auto termination in the last unit
5. Defective CU
6. Defective Unit.

Try narrowing the list by systematic fault finding

**Check the communication during the fault-finding in the 'View Error status Window'**



[www.shure.com](http://www.shure.com)

**United States, Canada, Latin America, Caribbean:**  
Shure Incorporated  
5800 West Touhy Avenue  
Niles, IL 60714-4608  
USA

Phone: +1 847 600 2000  
Fax: +1 847 600 1212 (USA)  
Fax: +1 847 600 6446  
Email: [info@shure.com](mailto:info@shure.com)

**Europe, Middle East, Africa:**  
Shure Europe GmbH  
Jakob-Dieffenbacher-Str. 12  
75031 Eppingen  
Germany

Phone: +49 (0) 7262-9249-100  
Fax: +49 (0) 7262-9249-114  
Email: [info@shure.de](mailto:info@shure.de)

**Asia, Pacific:**

Shure Asia Limited  
22/F, 625 King's Road  
North Point, Island East,  
Hong Kong

Phone: (+852) 2893-4290  
Fax: (+852) 2893-4055  
Email: [info@shure.com.hk](mailto:info@shure.com.hk)