

How to install LDPS_8x version 8.9510 for Windows 10 (x64)

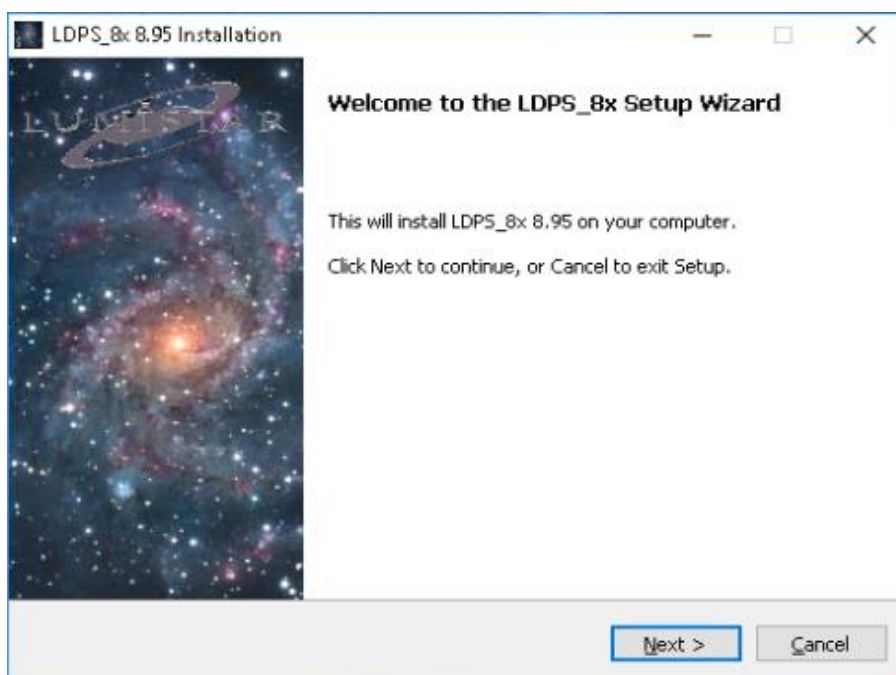
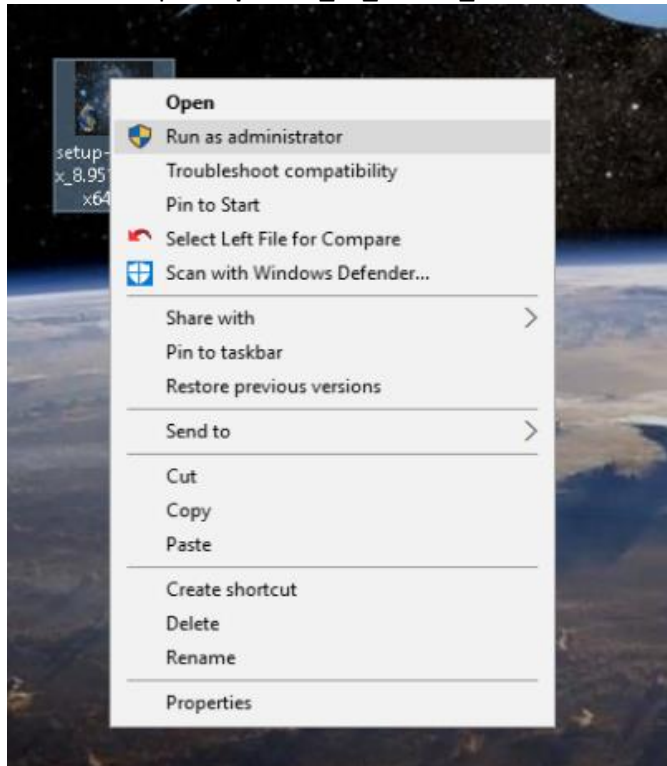
You can download the install and update files from:

https://lumi-star.com/uploads/LDPS_8x_Win10-64/setup-LDPS_8x_8_9510_W10x64.exe

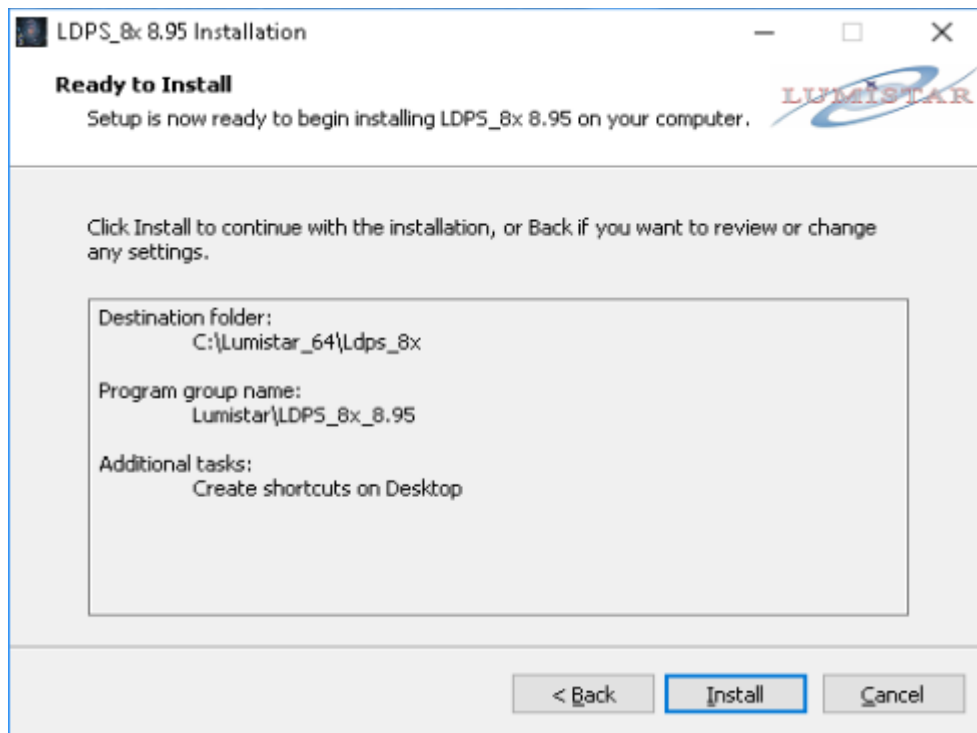
and

https://lumi-star.com/uploads/LDPS_8x_Win10-64/Update_Lumistar_W10x64_Sw.ZIP

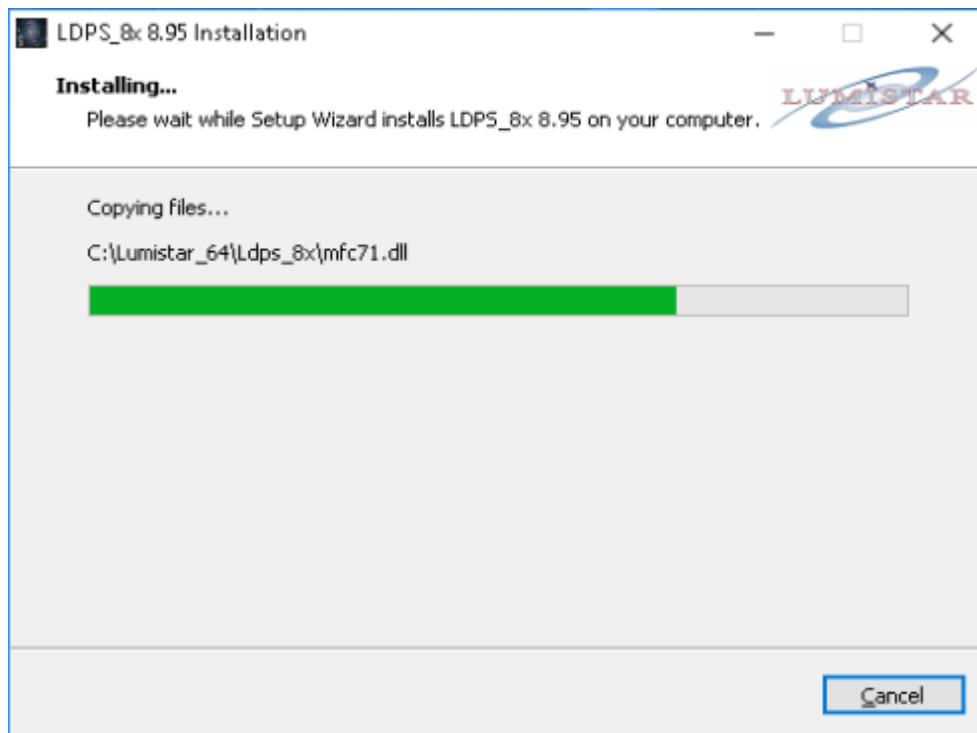
Run the setup-setup-LDPS_8x_8.9510_W10x64.exe as Administrator:



Click **Next**



Click **Install**



```
Administrator: Unloading Lumistar Drivers
Non-DIFxAPI uninstall, driver_in_store 0, devnode_exists 0, devnode_found 0
Uninstalled 3 devnodes
Removed PCI\VEN_10B5&DEV_9056&SUBSYS_52444454&REV_01\4&28478BE9&0&70F0
Removed PCI\VEN_10B5&DEV_9056&SUBSYS_52444454&REV_01\5&17A7A9F5&0&1000E1
Removed PCI\VEN_10B5&DEV_9056&SUBSYS_52444454&REV_01\5&17A7A9F5&0&0800E1

Processing HWID PCI\VEN_10B5&DEV_9056&SUBSYS_0372B00B&REV_01
Non-DIFxAPI uninstall, driver_in_store 0, devnode_exists 0, devnode_found 0
Uninstalled 0 devnodes
Warning: the device (hwid:PCI\VEN_10B5&DEV_9056&SUBSYS_0372B00B&REV_01) is not installed.

Processing HWID PCI\VEN_10B5&DEV_9056&SUBSYS_0340B00B&REV_01
Non-DIFxAPI uninstall, driver_in_store 0, devnode_exists 0, devnode_found 0
Uninstalled 0 devnodes
Warning: the device (hwid:PCI\VEN_10B5&DEV_9056&SUBSYS_0340B00B&REV_01) is not installed.
uninstall: completed successfully

C:\Lumistar_64\Ldps_8x\DriverTools>wdreg -inf lumidrvr1221.inf -log uninstall.log uninstall
WDREG utility v12.2.1. Build Jun 16 2016 10:01:27

Processing HWID *LUMIDRV1221
Non-DIFxAPI uninstall, driver_in_store 0, devnode_exists 0, devnode_found 0
Uninstalled 0 devnodes
difx_uninstall_inf: err e0000302, last event 0, last error 0. ERROR_DRIVER_PACKAGE_NOT_IN_STORE
Warning: INF copy for C:\Lumistar_64\Ldps_8x\DriverTools\lumidrvr1221.inf not found => not deleted.
Warning: the device (hwid:*LUMIDRV1221) is not installed.
uninstall: completed successfully

C:\Lumistar_64\Ldps_8x\DriverTools>pause
Press any key to continue . . .
```

Press any key to continue . . .

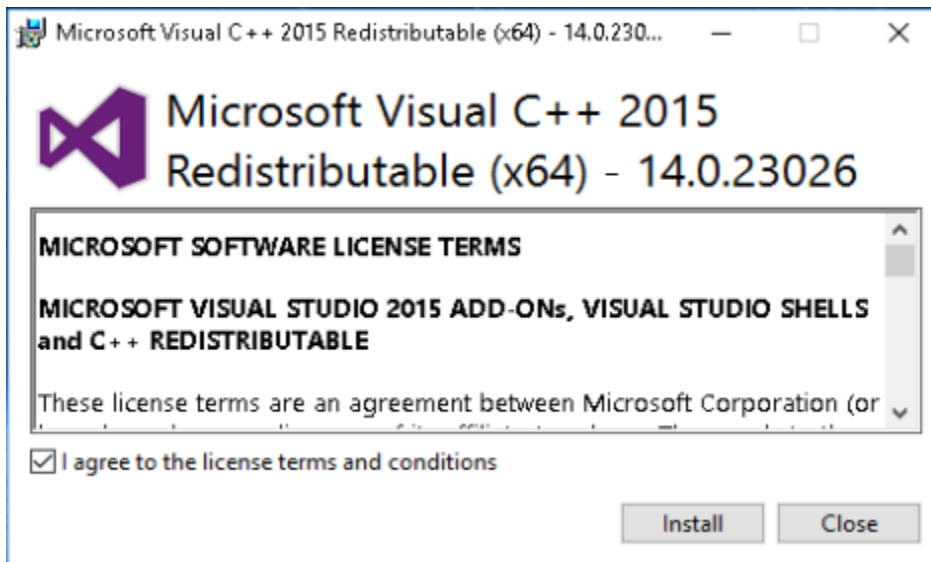
```
Administrator: Loading Lumistar Drivers
LOG ok: 1, Installation was successful.
LOG ok: 0, Install completed
LOG ok: 1, RETURN: DriverPackageInstallW (0x0)
LOG ok: 1, RETURN: DriverPackageInstallA (0x0)
difx_install_preinstall_inf: err 0, last event 0, last error 0. SUCCESS
install: completed successfully

C:\Lumistar_64\Ldps_8x\DriverTools>wdreg -inf Ls70P2_KpDriver.inf -log install.log install
WDREG utility v12.2.1. Build Jun 16 2016 10:01:27

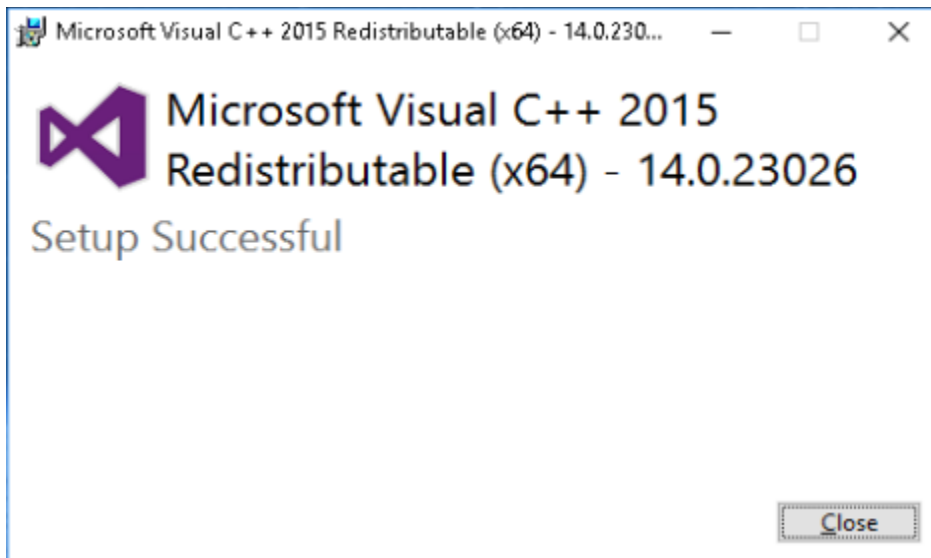
Processing HWID Ls70V2
Installing a signed driver package for Ls70V2
LOG ok: 1, ENTER: DriverPackageInstallA
LOG ok: 1, ENTER: DriverPackageInstallW
LOG ok: 1, Looking for Model Section [DeviceList.NTamd64]...
LOG ok: 1, Installing INF file 'C:\Lumistar_64\Ldps_8x\DriverTools\Ls70P2_KpDriver.inf' (Plug and Play).
LOG ok: 1, Looking for Model Section [DeviceList.NTamd64]...
LOG ok: 1, Installing devices with Id "Ls70V2" using INF "C:\WINDOWS\System32\DriverStore\FileRepository\ls70p2_kpdriver
.inf_amd64_b7461d953c3b00c4\Ls70P2_KpDriver.inf".
LOG ok: 1, ENTER UpdateDriverForPlugAndPlayDevices...
LOG ok: 0, RETURN UpdateDriverForPlugAndPlayDevices.
LOG ok: 1, Installation was successful.
LOG ok: 0, Install completed
LOG ok: 1, RETURN: DriverPackageInstallW (0x0)
LOG ok: 1, RETURN: DriverPackageInstallA (0x0)
difx_install_preinstall_inf: err 0, last event 0, last error 0. SUCCESS
install: completed successfully

C:\Lumistar_64\Ldps_8x\DriverTools>pause
Press any key to continue . . .
```

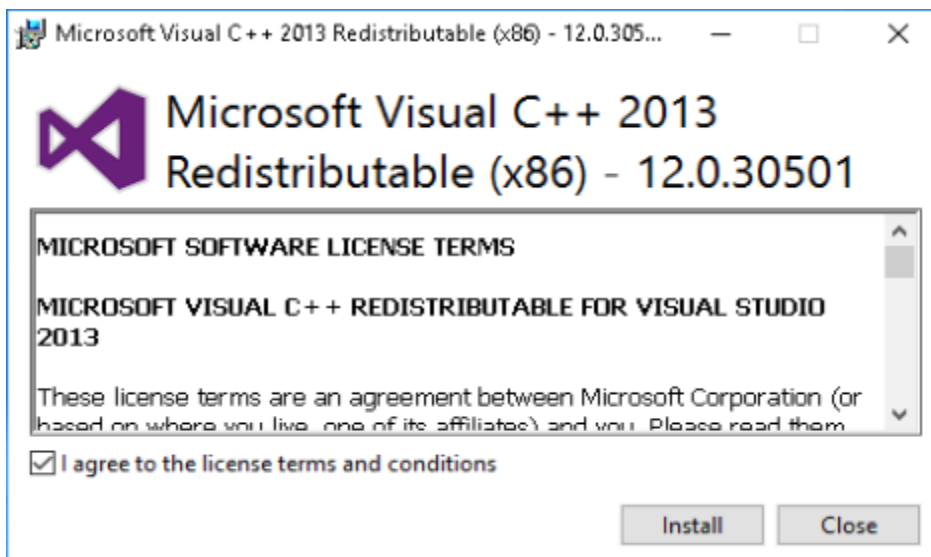
Press any key to continue . . .



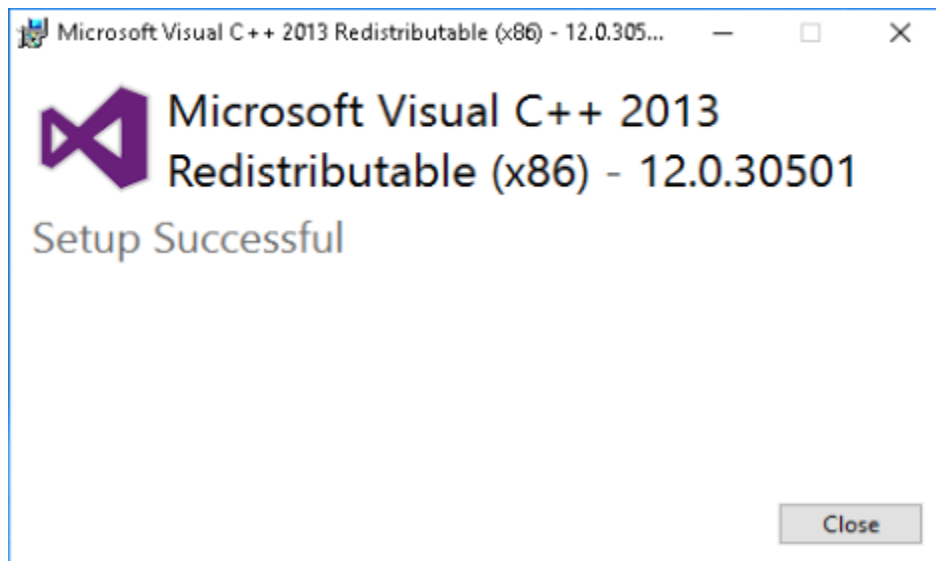
Check the **I agree to the license terms and conditions** CheckBox, then Click **Install**



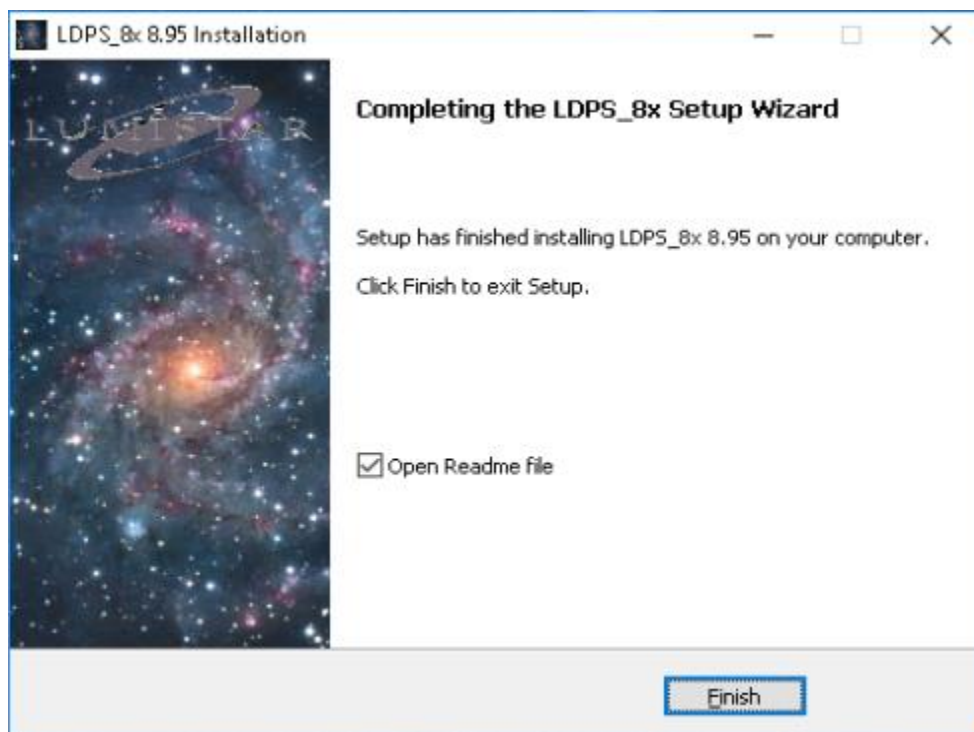
Click **Close**



Check the **I agree to the license terms and conditions** CheckBox, then Click **Install**



Click **Close**



Click **Finish**

```
ReadMe.txt - Notepad
File Edit Format View Help

Release Notes for Ldps_8x ver8.95 (Win10 64-bit)
=====
The following changes have been made since ver 8.94:
1) Update to basic archiving processing, ArcDLL_Ldps8x.dll,
   to remove some sporadic data misses
2) Added a Reset Counter button to the Ls50 Status windows.
3) Update to TM1 format archiving processing, ArcDLL_TM1.dll,
   to remove some sporadic data misses
4) Added Junco's PCI diagnostic tools for v12.21
5) Fixed sporadic loss of comms with LS40 bitsync
6) Fixed display refresh degradation after using LS45 bitsync dialog
7) Fixed interrupt loss dependency on PCI device position
   on the backplane's PCI buses
8) Update to paramudp.dll for parameter extraction and transmitting
   over UDP from the Client
9) Fixed interrupt issue with use of multiple decomm
10) Fixed stream independence and asynchronous comms issues with LS45s
11) Added Ls50P2(Rev 8) sim output as an input selection to Ls45
12) Removed output level control from second channel Ls50 sim channel
13) Updated PciDumpGui for Win10 64-bit and LumiDrv1221
14) fixed other minor bugs as found
15) et al.

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The following changes have been made since ver 8.93:
1) built system for Windows 10 64-bit
2) new Junco PCI driver ver 12.2.1 (lumidrvr1221.sys)
3) Microsoft signed device drivers (LS50 and LS70)
4) et al.

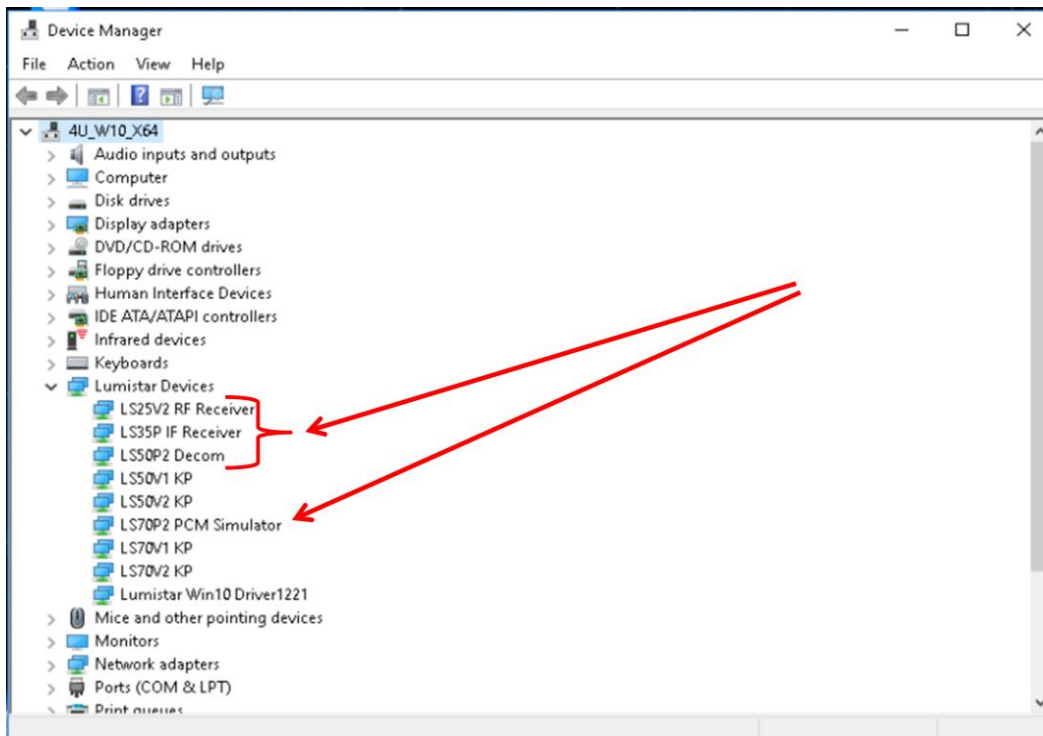
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The following changes have been made since ver 8.5638:

Let's recap what we are trying to accomplish with this release:
1) produce a release where we have all known software included
   (and under CM/svn)
2) perform as well as existing releases in all functionality, and
```

Close the **Notepad** Window

Restart your Computer "Hook" the card drivers.

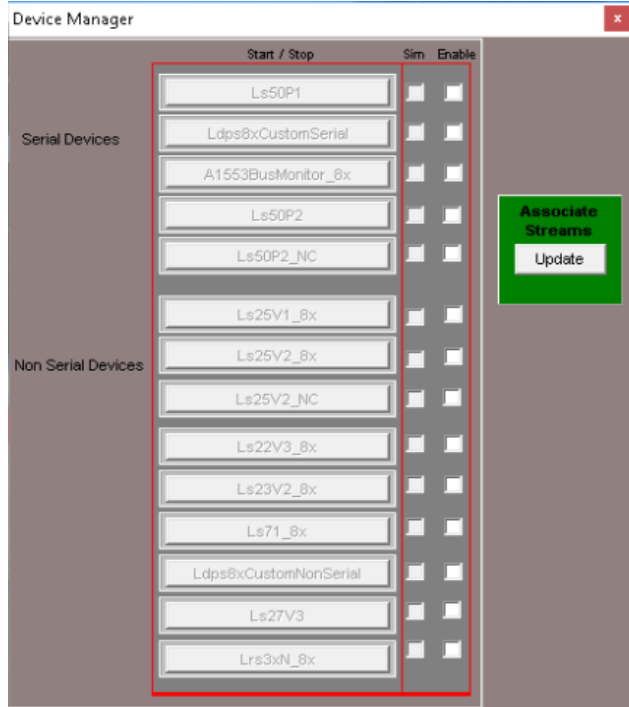
Open the **Windows Device Manager** and expand the **Lumistar Devices** section, you will see the Lumistar cards installed along with the required **KP** drivers



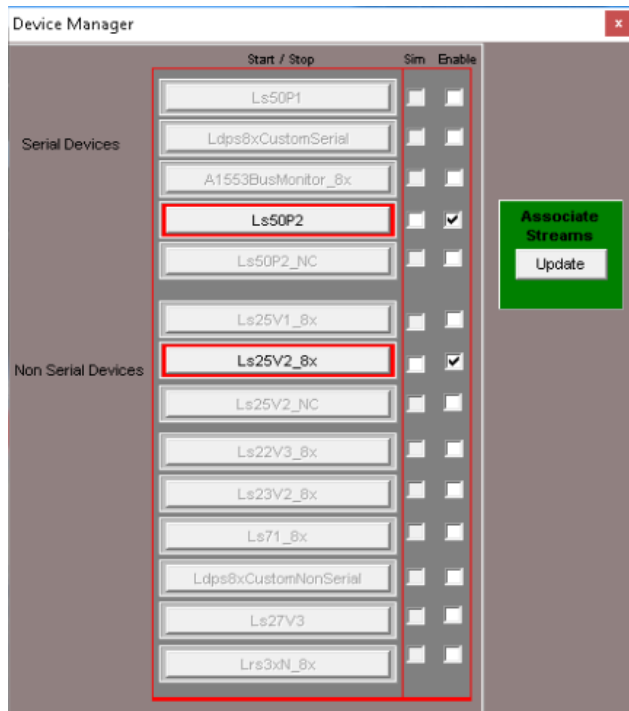
Double-Click the LDPS Server icon to launch the Server:



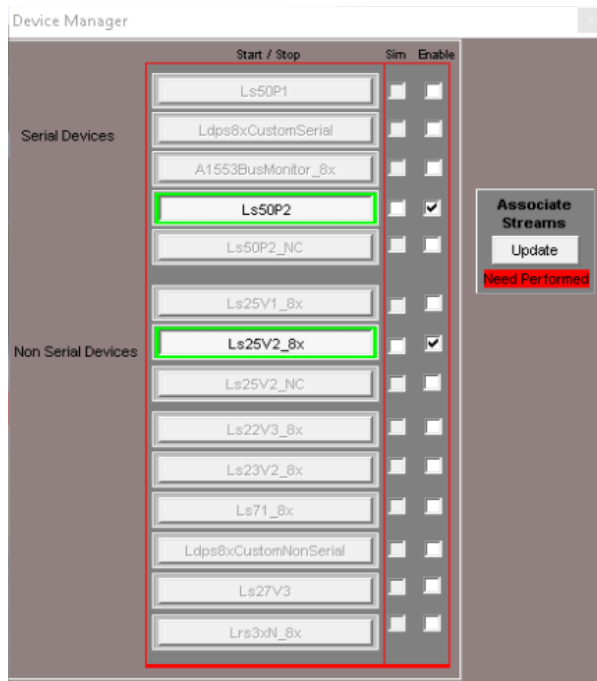
You will see the LDPS Device Manager appear if this is the first time loading LDPS_8x:



Click the CheckBox next to the Lumistar cards installed in your system:



Then Click the buttons with the Red Borders:



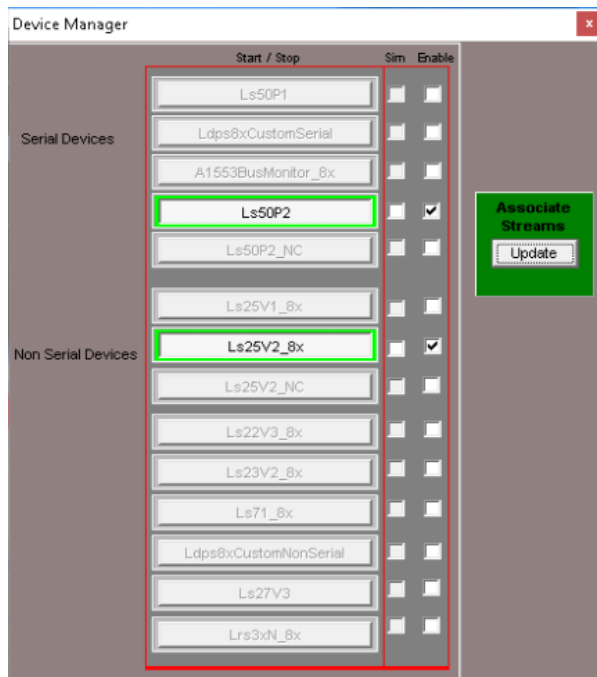
You will see the card control appear under the **Server** and the button border turns green:

Ls50P2 Ver 2.47/uSoft-64 (Decom)						
System Setup Int Ctrl Archive View Bert (D1)						
Stream	Status	Clock		Time		
1	● ● ● ●	0.0 Mbps		000:00:04:28.808		
2	● ● ● ●	0.0 Mbps		000:00:04:28.316		

NOTE: I have an LS-55 Dual Decomutator installed in my System

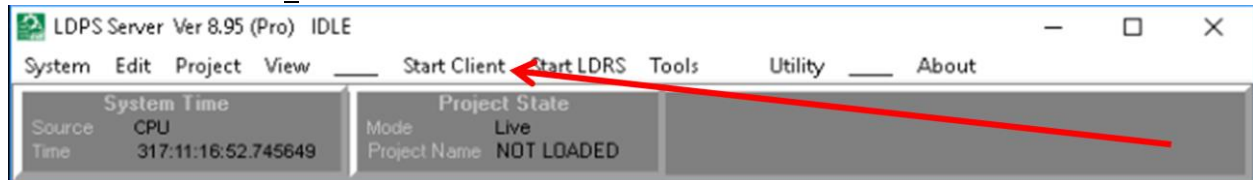
Ls25V2_8x Ver 1.65 (Receiver)						
System Setup						
Stream	Rssi	Deviation	Freq	IF BW	PD	
1	-100	0 kHz	2200	0.50	0.25	

I also have an LS-25 Receiver installed in my System



Click the **Update** button to save this configuration, the Close the **Device Manager**.

On the **Server** Click the **Start Client** Text:



This starts the **Client**:

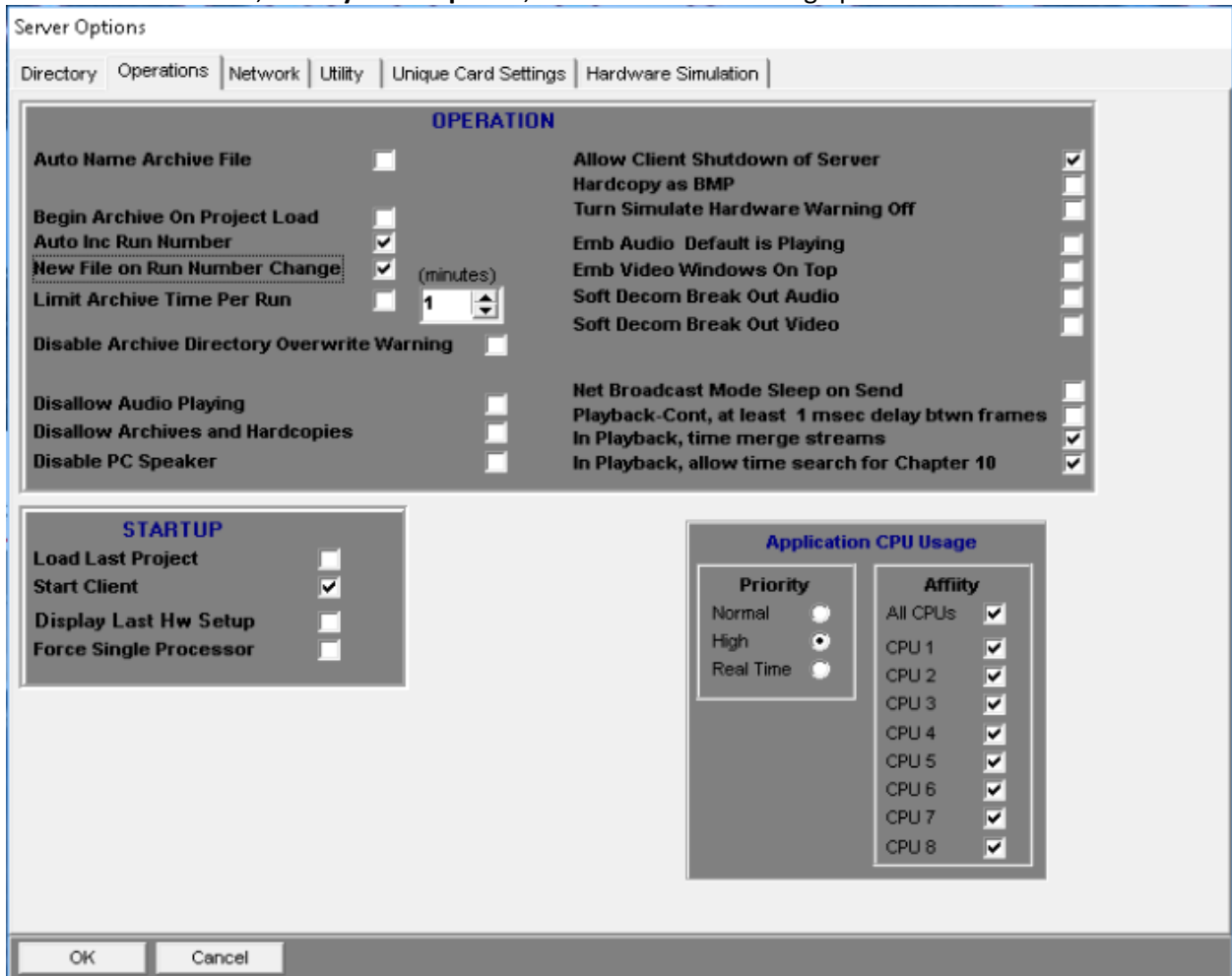


On the **Client** control, click **System>Options**, and select the following options:

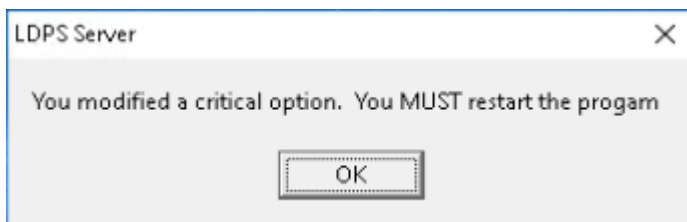


Click **OK**:

On the **Server** control, click **System>Options**, and select the following options:



Click **OK**



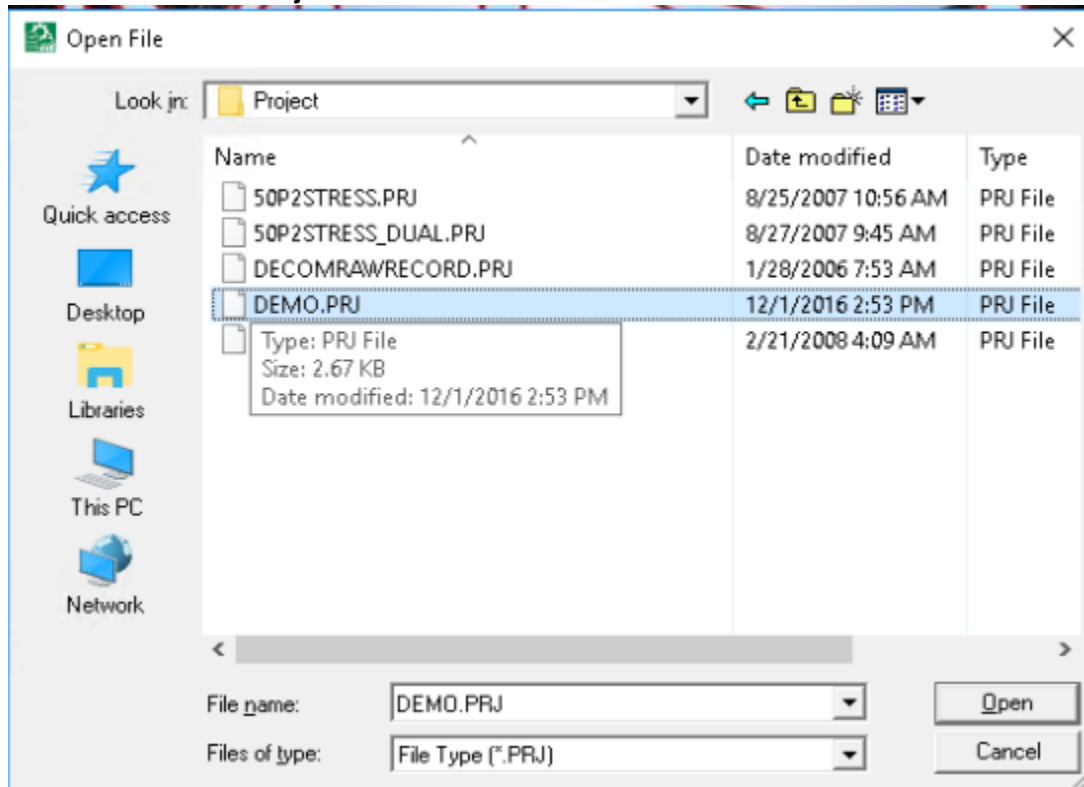
Click **OK**

Close the **Server** using the  button.

Restart LDPS_8x by double-clicking the Server Icon:

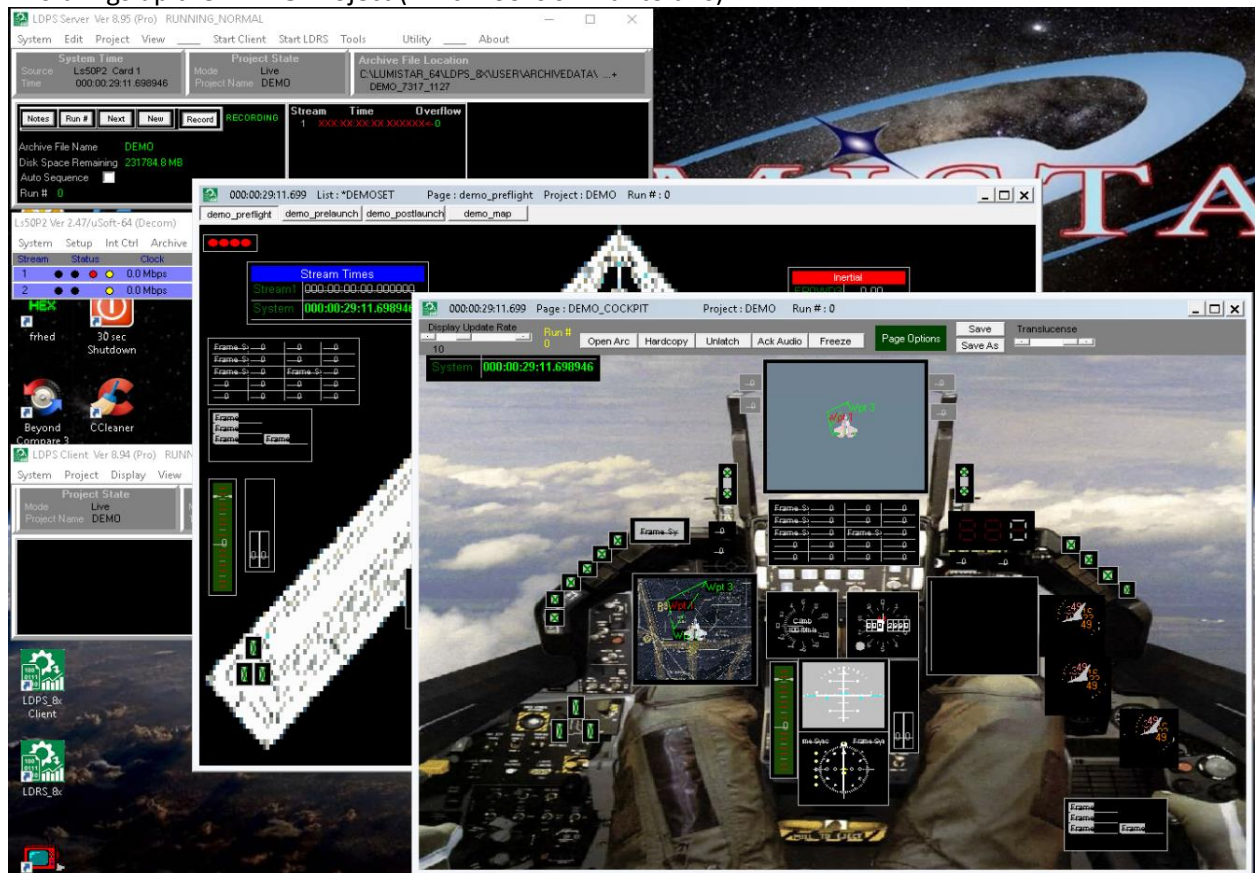


On the **Server** select **Project>Load** and select the **DEMO.PRJ**:



Click **Open**

This brings up the **DEMO** Project (which looks similar to this):



On the **Ls50P2 Control** select **Setup>Stream 1**:

Setup	Int Ctrl	Archive	View
Stream 1			Time
Stream 2			000:00:38:20.394
			000:00:38:19.902

LS-50-P2 (Stream 1) Setup :: DEMO_SIM

File Load All

Decom Simulator Bitsync IRIG

Word Attributes

Common Word Length 16
Words Per Minor Frame 512
Bit Order MSB FIRST
Frame Sync Location LEADS
Subframe Mode SFID

Minor Frame Count Direction UP
First Minor Frame Number 0
Num Minor Frames 64
SFID Word Number 3
SFID Msb 5

Msb Lsb
15 0

Frame Sync Window 0
Frame Sync Tolerance 1

Data Polarity NORMAL
Clock Polarity NORMAL
Data Source SIMULATOR
Frames Per Interrupt 4
Output Alignment RIGHT
PCM Input Code NRZL

Hex FE6B2840 FSP
Binary 11111110011010110010100001000000
Octal 37632624100

Pattern Length 32
Pattern FE6B2840

Flush Frame Buffers

G Mode ☐
Ext Sync ☐
Raw Data Mode ☐
Burst Mode ☐
Major Frame Mode ☐
FAC Enable ☐

B/S Status SEARCH
Major Frame SEARCH
Minor Frame SEARCH
Clock INVALID CLOC
Clock Rate 0.0 Mbps

Dump Frame Buffers

Click the **Simulator** Tab above:

LS-50-P2 (Stream 1) Setup :: DEMO_SIM

File Load All

Decom Simulator Bitsync IRIG

Word Attributes

Common Word Length 16
Words Per Minor Frame 512
Bit Order MSB FIRST
Frame Sync Location LEADS
Subframe Mode SFID

Minor Frame Count Direction UP
First Minor Frame Number 0
Num Minor Frames 64
SFID Word Number 3
SFID Msb 5

Msb Lsb
15 0

Bit Rate (bps) 0.8192 Mbps
Output Code NRZL
External Clock ☐
Convolution NONE

Track Decom ☒

Premod Filter Pre Mod 1000 kHz
BaseBand 6.000 Vpp

B/S Status SEARCH
Major Frame SEARCH
Minor Frame SEARCH
Clock INVALID CLOC
Bit Rate 0.0 Mbps

Start Stopped Load Simulator

Hex FE6B2840 FSP
Binary 11111110011010110010100001000000
Octal 37632624100

Pattern Length 32
Pattern FE6B2840

Dynamic Words

	Wd Start	Wd Intvl	Wave Form
1	4	0	SINE
2	5	0	COSINE
3	6	0	SQUARE
4	7	0	TRIANGLE
5	8	0	RAMPUP

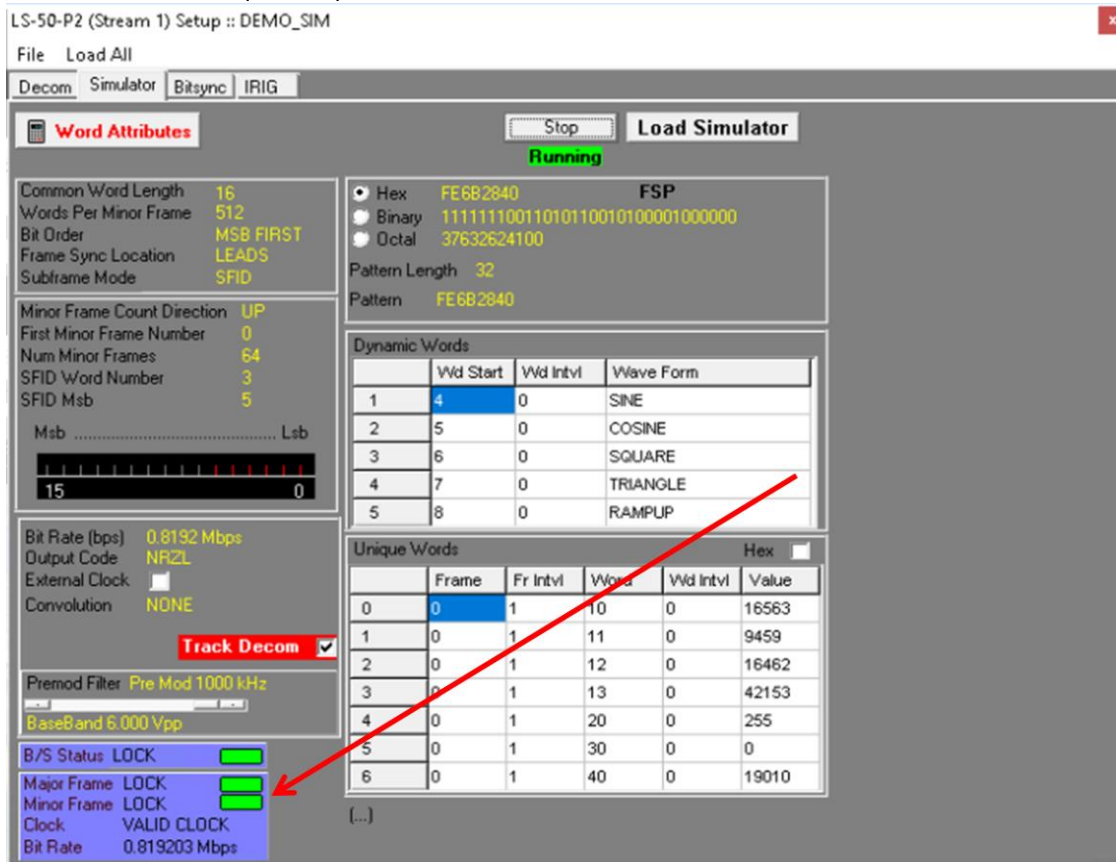
Unique Words

	Frame	Fr Intvl	Word	Wd Intvl	Value
0	0	1	10	0	16563
1	0	1	11	0	9459
2	0	1	12	0	16462
3	0	1	13	0	42153
4	0	1	20	0	255
5	0	1	30	0	0
6	0	1	40	0	19010

[...]

Click the **Start** button to start the Stream 1 On-Board Simulator:

The Decommulator (Decom) will indicate a **Lock Status**:



The Displays will now be moving:



To see the data coming into the Decom Frame Buffer --

On the **Ls50P2** Control select **View>Frame Dump>Stream 1** and you will see something like this:

MF Decom (Ls50P2) Card 1 Serial Data

FileFrame ListQuick ListHardcopySnap File

Setup Info

Cwl16Sfld Word3Minor Fr Rate100.0
Wpl512Sfld Msb5FPI4
Num Sf64Sfld Start0Card Mode0

Status Info

Data ValidYES
Drdy Counter0x0000CE64
Time000:00:39:15.477474
Frames Lost0x00000059
Reset Counter
Analysis

Pause

Flush Buffer

	T1	T2	T3	T4	S1	1	2	3	4	5	6
0	0020	3900	2415	7474	7000	FE6B	2840	0000	7FFF	FFFF	400
1	0020	3900	2515	7474	7001	FE6B	2840	0001	8C8B	FF62	400
2	0020	3900	2615	7474	7002	FE6B	2840	0002	98F8	FD8A	400
3	0020	3900	2715	7474	7003	FE6B	2840	0003	A527	FA7C	400
4	0020	3900	2815	7474	7004	FE6B	2840	0004	B0FB	F641	400
5	0020	3900	2915	7474	7005	FE6B	2840	0005	BC56	F0E2	400
6	0020	3900	3015	7474	7006	FE6B	2840	0006	C71C	EA6D	400
7	0020	3900	3115	7474	7007	FE6B	2840	0007	D133	E2F1	400
8	0020	3900	3215	7474	7008	FE6B	2840	0008	DA82	DA82	400
9	0020	3900	3315	7474	7009	FE6B	2840	0009	E2F1	D133	400
10	0020	3900	3415	7474	700A	FE6B	2840	000A	EA6D	C71C	400
11	0020	3900	3515	7474	700B	FE6B	2840	000B	F0E2	BC56	400
12	0020	3900	3615	7474	700C	FE6B	2840	000C	F641	B0FB	400
13	0020	3900	3715	7474	700D	FE6B	2840	000D	FA7C	A527	400
14	0020	3900	3815	7474	700E	FE6B	2840	000E	FD8A	98F8	400
15	0020	3900	3915	7474	700F	FE6B	2840	000F	FF62	8C8B	400
16	0020	3900	4015	7474	7010	FE6B	2840	0010	FFFF	7FFF	400

You will see the values **T1-T4** (IRIG Time) updating along with the Data Ready (**Drdy**) Counter incrementing. To Reset the Frames Lost counter, click the **Reset Counter**.

On the **Ls50P2** Control select **View>Status** and you will see something like this:

MF Status			
Overflow Count Kml 0 (Stream 1) Overflow Count Dll 2 Major Frame LOCK █ Minor Frame LOCK █ Time 000:01:15:03.764 Frame Count 267660 Lost 0 Clock Rate 0.819198 Mbps Maj Frame Rate 1.6 Min Frame Rate 100.0		Overflow Count Kml 0 (Stream 2) Overflow Count Dll 1 Major Frame SEARCH █ Minor Frame SEARCH █ Time 000:00:00:00.000 Frame Count 0 Lost 1 Clock Rate 0.0 Mbps Maj Frame Rate 0.0 Min Frame Rate 0.0	
Irig State FLYWHEEL █ Irig Time 000:01:15:03.818		Irig State FLYWHEEL █ Irig Time 000:01:15:03.385	

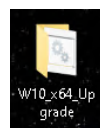
Note: I have an LS-55 Dual Decommutator card, hence Stream 2 above

Download from the link:

https://lumi-star.com/uploads/LDPS_8x_Win10-64/Update_Lumistar_W10x64_Sw.ZIP



onto your Desktop. Extract this zip to the Desktop



Enter this folder and run the

Update_Lumistar_W10(x64)_Sw.bat file.

```
C:\Windows\system32\cmd.exe
Updating Lumistar Windows 10 (x64) Software
Version 1.0
06 March 2018

---- Updating LDPS_8x ----
.\W10_x64\LDPS_8x\LS25V2_8x_D11.d11
.\W10_x64\LDPS_8x\LS27P3_D11.d11
.\W10_x64\LDPS_8x\Bin\ArchiveD11s\ArcD11_Ldps8x.d11
.\W10_x64\LDPS_8x\Bin\ArchiveD11s\ArcD11_TM1_8x.d11
.\W10_x64\LDPS_8x\User\ServerFiles\DDbase\DEMO.B50
.\W10_x64\LDPS_8x\User\ServerFiles\DDbase\DEMO_SIM.B50
6 File(s) copied

---- Updating Lrrs_3x ----
.\W10_x64\Lrrs_3x\LS25V2_8x_D11.d11
.\W10_x64\Lrrs_3x\LS27P3_D11.d11
2 File(s) copied

---- Updating Ls7x_DynaSim ----
.\W10_x64\Ls7x_DynaSim\LS70V1D11.d11
.\W10_x64\Ls7x_DynaSim\LS70V2D11.d11
.\W10_x64\Ls7x_DynaSim\Bin\ArchiveD11s\ArcD11_Ldps8x.d11
.\W10_x64\Ls7x_DynaSim\Bin\ArchiveD11s\ArcD11_TM1_8x.d11
.\W10_x64\Ls7x_DynaSim\User\SetupFiles\DEMO.LS7X
5 File(s) copied

Copying complete.
Press any key to exit.
_
```

You may not have all of the folder updated above. This is not a problem, **Press any key to exit.**

From this point you can manipulate the Decom configurations to test all cabling to your System.