SL NEO Media Server (neovid.exe)

The basic application of the set, responsible for configuration and launch of SL Neo Media Platform program modules.

Application First Launch



If this is the first time you start the application (there are no configuration files in the run folder), the application activates the Configuration Wizard mode.

Configuration Wizard

Configuring I/O Boards

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ات ۷	SL NEO Media Server: Initial Cor /ideo IO Boards	nfiguration			<u>? ×</u>
	This page allows to choose video IO you can choose "LAN Interfaces/Eth Monitors/Computer Screen" to rende Video IO Boards installed:	boards to be used by the media-serv ernet Adaptor" for MPEGTSoIP input r to the computer monitor.	ver. If you /output or	don't have any "Standard Comp	special hardware puter
	Brand	Name	Mode	IN/OUT	Add
	Matrox DSX	Matrox DSXLE3/22	1080i50	2/2	Remove Move Up Move Down Config
			< Back	Next >	Cancel

	Adding boards				
Add	Adding a board.				
Remove Removes the selected board.					
Move Changes the boards order (this will affect correlation of service numbering with bo sockets).					
Config Changing parameters specified when adding a board.					
Next	Move to the next stage of setup				

SL NEO Media Server: Initial Configuration	? ×
Video IO Boards This page allows to choose video IO boards to be used by the media-server. If you don't have any special hardward you can choose "LAN Interfaces" in the server of the server. If you don't have any special hardward Monitors/Computer Screen" to r Video IO Boards installed:	2
Brand Video IO Boards available: N/OUT Add Brand: Matrox DSX Image: Matrox DSXLE3/22 Image: Matrox DSXLE3/22 Image: Move Up Ok Cancel Move Up Move Down Config Config Config	
< Back Next > Cancel	
The adding board dialogue.	

Brand	Selecting the board producer.		
Name	Selecting the board model.		
Ok	Move to board settings (may differ for different types of boards).		

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📵 Matrox D	95X/Matrox D5XLE3/22: Bo	ard Configura	tion	<u>? ×</u>
Output	1			
Mode:	Playout 💌 Video:	SDI	 Audio: 	Embedded 💌
		< Back	Next >	Cancel

Consistent defining the setting for every port of the board.

Mode Selecting a working mode for the board port - to the input (capture) or output (playout). If the value is already defined, the board won't be available for configuring.

Video The video output mode.

Audio The audio output mode (Embedded, Analog).

Matrox DSX/Matrox DSXLE3/22: Board C	onfiguration	<u>? ×</u>
Video Mode		
Now that you have configured all board's IO char board:	nnel, it's time to select a video mode for the	IO
Video Mode:	1080i50	-
	< Back Finish Canc	el

Select the video mode: PAL, PAL 16×9, 1080i50 and others.

Storage Configuration

SL NEO Media Server: Initial Configuration	<u>?</u> ×
Media Storage	
This page allows to configure where media storage will be located. Media Storages:	Add
Storage Type: SL NEO Media Storage 🔽 Path: Z:\media_db	Remove Move Up
Ok Cancel	Move Down Config
< Back Next >	Cancel

Connecting Storage		
Storage type	A file folder or the SL NEO Media Storage database.	
Path	Path to the file folder or database root folder.	

If the SL NEO Media Storage type is selected and the path to an empty folder is specified, a new database will be created.

Configuring Tape-Recorder

😇 SL NEO Media Se	erver: Initial Configuration	?×
VTR Machin	e	
If you want to use a	VTR machine for batch captures, please, select the port where it is connected	
VTR Port:	No VTR Connected	•
Frame Rate:	25 fps	~
Network address:		
	< Back Next > Canc	el

Configuring consists in specifying the server control port connected to the tape-recorder (RS-232/422 or IEEE1394).

Complete the Setup

×
I
1

To set additional components like RSS Feeder, remove the Start Server check mark. Additional components are configured in the Configure Server Components menu.

Right Click Menu

Launched SL NEO Media Server (neovid.exe) may be in two conditions.

Condition	Menu		Menu items description
			• Start Server - launches installed software components
		Start Server Stop Server	Configure Server Components - installing/deleting and basic configuring the software
Stopped - red		Administrator Control Panel Configure Server Components	components. Detailed configuration of installed components is implemented in the Administrator
		Run Configuration Wizard	Control Panel window.
		Messages	• Bun Configuration Wizard - launches the software
	EN 🚺	Quit	configuration wizard (the current configuration will be erased).
			Quit - complete closure of the application.

Condition	Menu		Menu items description
Started - blue	EN E	Start Server Stop Server Administrator Control Panel Configure Server Components Run Configuration Wizard Messages Quit	 Stop Server - stops all active software components. Administrator Control Panel - the window to configure installed components. Every component must be preliminarily installed in the Configure Server Components window. Messages - displays current logs of software modules.
			Quit - complete closure of the application.

Configure Server Components

Available componen Standard Co Computer Scree Virtual Captu Virtual Camera Software Comp Program Channe Recorder Recorder Recording Mana Time Shift Storage RSS Feeder Instant Replay Profanity Delay Multiscreen	ts mputer Monitors n ure Devices ponents el ger		>>	-Installed components Video IO Boards Matrox DSXLE3/22 (Matrox DSX) Software Components Program Channel Program Channel Recorder Recorder Recorder Storage Device Server GPI IO Boards BVW75 Compatible Devices Router buses EAS Devices EAS Devices		Up Down
Device Server-	odes:			Meteo Stations		
Video Mode	Resolution	Frame Rate	Field Pola	rity		
 PAL NTSC 720p50 720p60M 720p60 1080p24M 1080p24 1080p25 1080p50 1080p30M 1080p30M 1080p30 	720x576 720x480 1280x720 1280x720 1280x720 1920x1080 1920x1080 1920x1080 1920x1080 1920x1080 1920x1080 1920x1080	25.00 29.97 50.00 59.94 60.00 23.98 24.00 25.00 25.00 29.97 29.97 30.00	TFF BFF PROGR PROGR PROGR PROGR TFF PROGR TFF PROGR			•
					Ok	Cancel

	Installing/Deleting Software Components Window
Available components	This area displays all available components. Initially, all components are turned off.
Installed components	This area displays all installed components.
Properties	Basic settings of installed components. Current settings are not available from the Administrator Control Panel.
»	The button sets the component selected from the left

«

Installing/Deleting Software Components Window

The button deletes the component selected from the right

Software Components

The information is relevant for the 2.0.57 version.

System service - system components

System Components within neovid.exe			
Action router	The component routes Actions between software components supporting this option. The component is always activated.		
BXF_Connector	The component for integration with traffic systems.		

Video IO Boards

Blackmagic				
Decklink SDI 4K				
Decklink 4K Extreme 12G				
Decklink SDI				
Decklink Duo				
Decklink Quad				
Decklink Studio				
Decklink Studio 2				
Decklink HD				
Decklink HD Extreme				
Decklink HD Extreme 2				
Decklink HD Extreme 3				
Decklink				
Decklink Extreme				
Decklink Pro				
Decklink SP				
Decklink Intencity Pro				
Decklink Optical Fiber				
Decklink Mini-Monitor				
Decklink Mini-Recorder				
Dektec				
Dektec DTA-105				
Dektec DTA-124				
Dektec DTA-(2)145				
Dektec DTA-160				
Dektec DTA-2144				
Deltacast				
DELTA-codec (ASI)				
DELTA-codec (SDI)				
DELTA-asi 01				

Blackmagic				
DELTA-asi 02				
DELTA-asi 10				
DELTA-asi 20				
DELTA-asi 11				
DELTA-asi 21				
DELTA-asi 12				
DELTA-asi 22				
DELTA-asi 04				
DELTA-asi 40				
DELTA-sdi 10				
DELTA-sdi 01				
DELTA-sdi 11				
DELTA-sdi 20				
DELTA-sdi 02				
DELTA-sdi 21				
DELTA-sdi 12				
DELTA-sdi 22				
DELTA-sdi 40				
DELTA-sdi 04				
DELTA-hd 10				
DELTA-hd 01				
DELTA-hd 11				
DELTA-hd 20				
DELTA-hd 02				
DELTA-hd 21				
DELTA-hd 12				
DELTA-hd 22				
Matrox				
Matrox XMIO(2)/12				
Matrox XMIO(2)/13				
Matrox XMIO(2)/24				
Matrox XMIO(2)/44				
Matrox XMIO(2)/20				
Matrox XMIO(2)/04				
Matrox DSXSD				
Matrox DSXLE				
Matrox DSXLE2				
Matrox DSXLE3/12				
Matrox DSXLE3/22				
Matrox DSXLE3/40				
Matrox DSXLE3/04				
Matrox DSXLE4/40				
Matrox DSXLE4/40 (4K)				
Matrox DSXLE4/31				
Matrox DSXLE4/22				

	Blackmagic
Matrox DSXLE4/2	13
Matrox DSXLE4/0)4
Matrox DSXLE4/0	04 (4K)
Matrox DSXLE4/8	30
Matrox DSXLE4/8	30 (4K)
Matrox DSXLE4/	71
Matrox DSXLE4/	52
Matrox DSXLE4/	53
Matrox DSXLE4/4	14
Matrox DSXLE4/4	14 (4K)
Matrox DSXLE4/3	35
Matrox DSXLE4/2	26
Matrox DSXLE4/2	17
Matrox DSXLE4/0	08
Matrox DSXLE4/0	08 (4K)
	AJA Video Systems
AJA Corvid22	Not supported since version 2.1.0
	DataPath
VisionRGB-E1S	
VisionRGB-E2S	
Streamlabs	
M(H)4LM	
MS416	
	LAN Interfaces
Ethernet Adapto	r Using the network interface for IP Playout and IP Capture
	FireWire Interfaces
IEE1394 Port	
	ΜΟΤυ
MOTU 24/IO	
	Standard Computer Monitors
Computer Scree	Adds a Playout service to the desktop
	Virtual Capture Devices
Virtual Camera	Creates a Playout service, defined as a camera in the system. Other applications can receive image from this camera. Not all applications can correctly identify the virtual camera, because of support of 64-bit architecture. Skype or vMix work correctly with the camera.
	DirectShow devices
Web Camera	Creates a Capture service that allows capturing audio and video from devices that support DirectShow. Added in 2.1.6 version.

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Software Components

Program Channel	Adds a program channel (playlist)
Recorder	The recording service
Recording Manager	The component for administrating recording queues

Time Shift	Adds the component for organization of broadcasting with a time shift of the output signal relative to the input signal, from three minutes to several days.		
Storage	Media database		
RSS Feeder	The service for generating RSS streams from files (txt, xls, xml)		
Instant Replay	The component for creating slow motion replays		
Profanity Delay	Short delay of a few seconds is used for quick prevention of bloopers or displaying any other undesirable material in the broadcast.		
Multiscreen	The component for multiscreen output		

Device Server - equipment management

GPI IO Boards				
ICP DAS				
P8R8				
P16R16				
	ADLink			
PCI-7250				
	ONTRACK			
ADU200				
ADU2x8				
	XKEYS			
ХК-24				
XK-60	The 60-button Xkeys keyboard.			
XK-80	The 80-button Xkeys keyboard.			
	System - system devices			
HotKey	The Windows system keyboard			
TimeTable	The system startup scheduler			
	Louth Protocol			
Event Decoder				
	Stramatel Protocol			
Score Board	It sends requests to the RS485 port (the Stramatel controller sends the game Score Board Liming, game period number and score to the bus). Skylark reads off data and launches Action (SlowMotion).			
	VSN Serial Protocol			
Disconnection Codes	Added earlier in the 2.1.0 version			
BVW75 Compatible Devices				
VTR The module for t	tape-recorder connection			
Router buses - matrix control				
	TRITON			
BAS/BDS				
D.I.P				
DMS4				
Les				
LES16				
LES32				
Profit				
Profit	Profit			

Router buses - matrix control			
TRITON			
	VikinX		
v128			
thor			
	Leitch		
Leitch	Managing Harris matrices by the Leitch protocol (COM port).		
	Kramer		
Kramer			
	Decklink		
Videohub-Ethernet	Managing Blackmagic devices via Ethernet (e.g., Smart Video Hub and Multiview)		
Videohub-RS422	Managing Blackmagic devices via a COM-port (e.g., Smart Video Hub)		
	Snell		
Switcher Protocol			
Remote Protocol			
	Evertz		
Quartz			
	Sierra		
XXvse			
	Utah		
SC-4/RPC-1			
	Pro-Bel		
Switcher Protocol (SW-P-02)			
Remote Protocol (SW-P-08)			
	Venux		
VM/SI 3000 ASCII	Added earlier in the 2.1.0 version		
	RossVideo		
NK-SCP/A	Added earlier in the 2.1.0 version		
EAS Devices			
TFT			
911			
TimeCode Sources			
Miranda			
Little-Red The LTC to RS-232 converter (discontinued)			
Horita			
TCI-50 Added earlier in the 2.1.0 version			
Caption Controllers			
Fab Compatible			
Fab Compatible Added earlier in the 2.1.0 version			

Data Providers

Meteo Stations

Davis Instruments Corp.

Vantage Pro Vantage Pro2 Meteostation

Administrator Control Panel

A web page for configuring installed software components, can be opened only with launched software. There are two ways to access the page:

• The Administrator Control Panel menu. To enhance security in this mode, the Administrator Control Panel window is automatically closed, if inactive within five minutes.



• The page can be opened in a browser: http://IP_ADDRESS:7901, where IP_ADDRESS is the server address.

Login to Control Console

🖲 neovid	
Skylark Te	chnology Inc. Welcome to NeoVid version 2.0.57
Please, logi	n:
Login as:	Administrator 💌
Password:	
	Login
-	

Administrator Control Panel

provides two user options:

- Normal User all settings are available in the read-only mode (the default password is empty).
- Administrator full access to all settings (the default password is empty).

Status Menu

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Eneovid Status Manage License Users Files Logs Quit	Capture_1 - PAL - (Capture)	Playout_1 - PAL - (Playout)	Program_1 (Program C
	Crash Cnt: 0 Audio Gain: +0.0 Db	Crash Cnt:0Input:Program_1Format:Conversion:Audio Gain:+0.0 DbSync Mode:MasterIP Output:ONAudio Lang (1)	Crash Cnt Backgroun Format: Conversio Graphics 1 Graphics 1 Graphics 2 Graphics 2 Graphics 2

Displays all system modules.

All changes on the Status page are applied immediately.

Manage Menu

🖲 neovid	1 3 - 🗆	×
<u>Status</u> Manage	Configuration has been modified Discard Changes Apply Changes	
License Users	Video IO Boards Program Outputs Recorders Storages GPI Boards	4
<u>Files</u> Logs	LAN Interfaces/Ethernet Adaptor	
Quit	Ethernet port: (Add Service Clear Services)	
	Capture	_
	X Capture_1(Edit) MPEG2TS/IP/Embedded,PAL,udp://225.1.110.2:2000(E	dit)
	-Playout-	=
	X Playout_1(Edit) MPEG2TS/IP/Embedded(4000 kbps),PAL,mpg2,1 audio	stre
		Þ

Functional areas of the window:

- 1. The main menu
- 2. Tabs that group settings of installed software components (installing components is implemented in "Configure Server Components...", see above).
- 3. Buttons to apply and discard changes.
- 4. The area of configuring software components. Setting components is described in detail in other articles (e.g., configuring the Storage component is described in the SL NEO MAM article).

To save changes on the Manage page, press Apply Changes. Software components with changed configurations will be reloaded. The rest of components will continue operating.

License Menu

🖲 neovid				- O ×
				_
Status	Skylark Technology Inc. NeoVid version 2.0.57 2015-08-29			
Manage	Machine CO	DDE:	ATDM-PAGC	
License	Config COI	DE:	JNHY-OALT	
Users	Config SD (Channels:	2	
Files	Config HD (Channels:	0	
Logs	Config 4K (Channels:	0	
<u>Quit</u>	Config PGN	I Channels:	2	
	Config REC	Channels:	1	
	Config PDS	Channels:	0	
	Config LCC	Channels:	0	
	Config SCT	E104 Channels:	0	
	Config EBU	-R128 Loudness Channels	s:0	
	Licensed to:	:		
	Name:			
	Machine:	ATDM-PAGC		
	Config:			
	SD	unlimited		
	Channels:			
	HD	unlimited		
4	<u> </u>			• •

Displays information on the current license.

Users Menu

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page allows changing user passwords.

Files Menu

🖲 neovid	
Status Upload file Delete file(s)	
Manage Colorbars.png4KB	
License	
Users Files	
Logs	
Quit	

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The menu allows managing content of the C:\Program Files (x86)\SL NEO Media Platform\run\files folder. The folder content is used by the "Source type: FILE" parameter, when selecting a source for Input, Background, Graphics Clip, Logo Clip, etc.

Logs Menu

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🖲 neovid		
Status Filo		
Manage Solt of		Size
License > 2015_00		
<u>License</u> <u>2015_07</u>		
<u>Users</u> P <u>2015_08</u>		
<u>14es</u> <u>2015_09</u>		
Logs P 2015_09_01		
<u>Quit</u> <u>2015_09_02</u>		
► ^{2015_09_08}		
► 📁 <u>2015_09_10</u>		
► 📁 <u>2015_09_11</u>		
► 📁 <u>2015_09_16</u>		
► 📁 <u>2015_09_17</u>		
► [™] <u>2015_09_21</u>		
▼ <u>2015_09_22</u>		
Action router_2015	_09_22-00.txt	11975
Action router_2015	_09_22-01.txt	11975
BXF Connector_20	15_09_22-00.txt	1492
BXF Connector_20	15_09_22-01.txt	1492
Capture 1 2015 0	09_22-00.txt	1811
Capture 1 2015 0	09_22-01.txt	1811
•		· · · · · ·

The menu displays content of the catalog with logs: C:\Program Files (x86)\SL NEO Media Platform\run\logs. A click on the folder saves logs to a ZIP-archive with the folder name.

Quit Menu

Exit from the control console.

Troubleshooting

The program does not save settings

Save	components config	×
1	Could not save config	
	ОК	

The «Could not save config» error reports about the failure of saving settings. It occurs for lack of access to recording into the "C:\Program Filex (x86)\SL NEO Media Platform" folder. The solution:

• Grant full access to the folder for a current user.

• Launch the program as an administrator (right-click the icon→Launch as an administrator).

The neovid.exe program unexpectedly stopped operating

This error appears extremely rarely. Here, while the server work often continues in the normal mode, login to "Administrator Control Panel" and stop of server components become unavailable.

It is recommended to switch to the backup server, as the procedure of performance restoration of neovid.exe will lead to a short stop of airing.

The best solution is server reload, but you can try to restore the work without reloading:

- Launch neovid.exe again
- Press Quit in the right click menu
- Wait for the application to end its work
- Open the Windows task manager
- Find rrplay applications and close them.
- Launch neovid.exe
- Check the server workability (the black Err/Play status of a current playlist event is normal in case of a service failure).

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