



xEssentials

Videos.xLights.org

Setting Up a Neighborhood Display

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2021.7



Who Am I?

- Advanced Application Engineer for QSC
 - Commercial Audio/Visual manufacturer
 - Network-based audio, video and control systems
 - Background in show and automation control systems and theatrical production



Case Study: Lucy Depp Park Light Show

- Located in Columbus, Ohio
- 6 Houses
- 7.5 Acres
- ½ Mile Loop
- 4 Years
- Drive-Thru Woods



www.ldplights.com



Peace for Paws Ohio



- Donations raised for Peace for Paws Ohio
- Rescue for high-kill rural shelters
- This year raised enough funds to rescue 28 dogs



FRABELL DR

SPRINGDALE DR

LAKEVIEW DR

HARRIOTT RD

GWENDOLYN DR

Year 1





Year 1



FRABELL DR

SPRINGDALE DR

LAKEVIEW DR

HARRIOTT RD

GWENDOLYN DR

Year 2



FRABELL DR

EW DR

SPRINGDALE DR

HARRIOTT RD

GWENDOLYN DR

Year 3





FRABELL DR

SPRINGDALE DR

LAKEVIEW DR

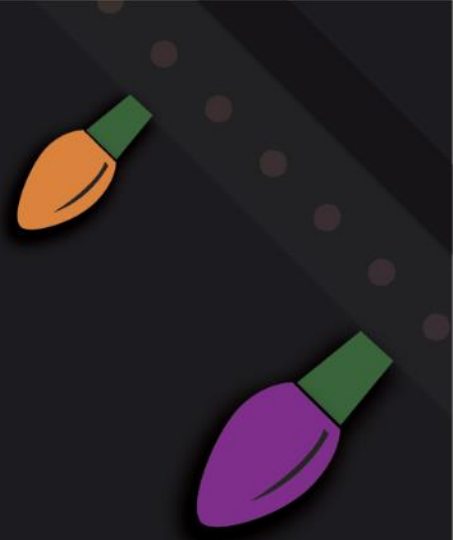
HARRIOTT RD

Year 4

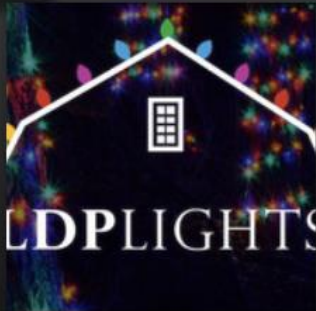
DENDOLYN DR



Spring / Summer 2020: Planning Season







COLLABORATIVE PLAYLIST

LDP Possible Songs

Created by: krhodus • 91 songs, 4 hr 44 min

PLAY



Filter

TITLE

ARTIST

- + Jingle Bells (Boyinaband Dubstep Re... Boyinaband
- + Dubstep of the Bells PumpYouUp
- + The First Noel X-Mas Robots
- + God Rest Ye Merry Gentlemen X-Mas Robots
- + Jingle Bells (Dubstep Remix) X-Mas Robots
- + Silent Night (Robotic Christmas Rem... X-Mas Robots

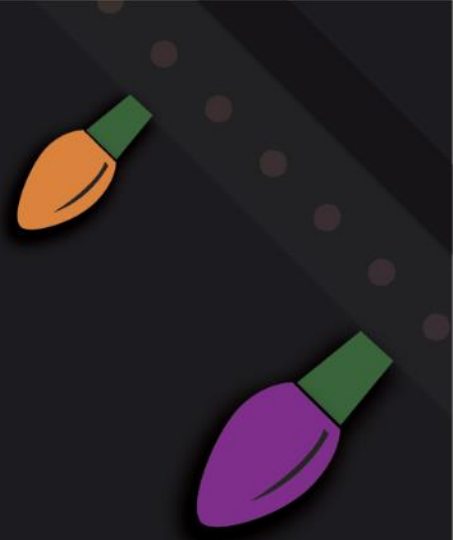


Selection	Start	End	Duration
Selection	0:00.591	0:00.591	0:00.000
View	0:00.000	1:19.187	1:19.187

48000 Hz • 32-bit Mixing 240.90 MB 10:57.813 217.55 GB free



August 2020: Hanging Season





FRABELL DR

AP

AP
Switch

Loco
Switch
AP

Loco

Loco

SPRINGDALE DR

Switch
LiteAP

Loco

LAKEVIEW DR

MDF

Rocket Omni
Switch

AP

HARRIOTT RD

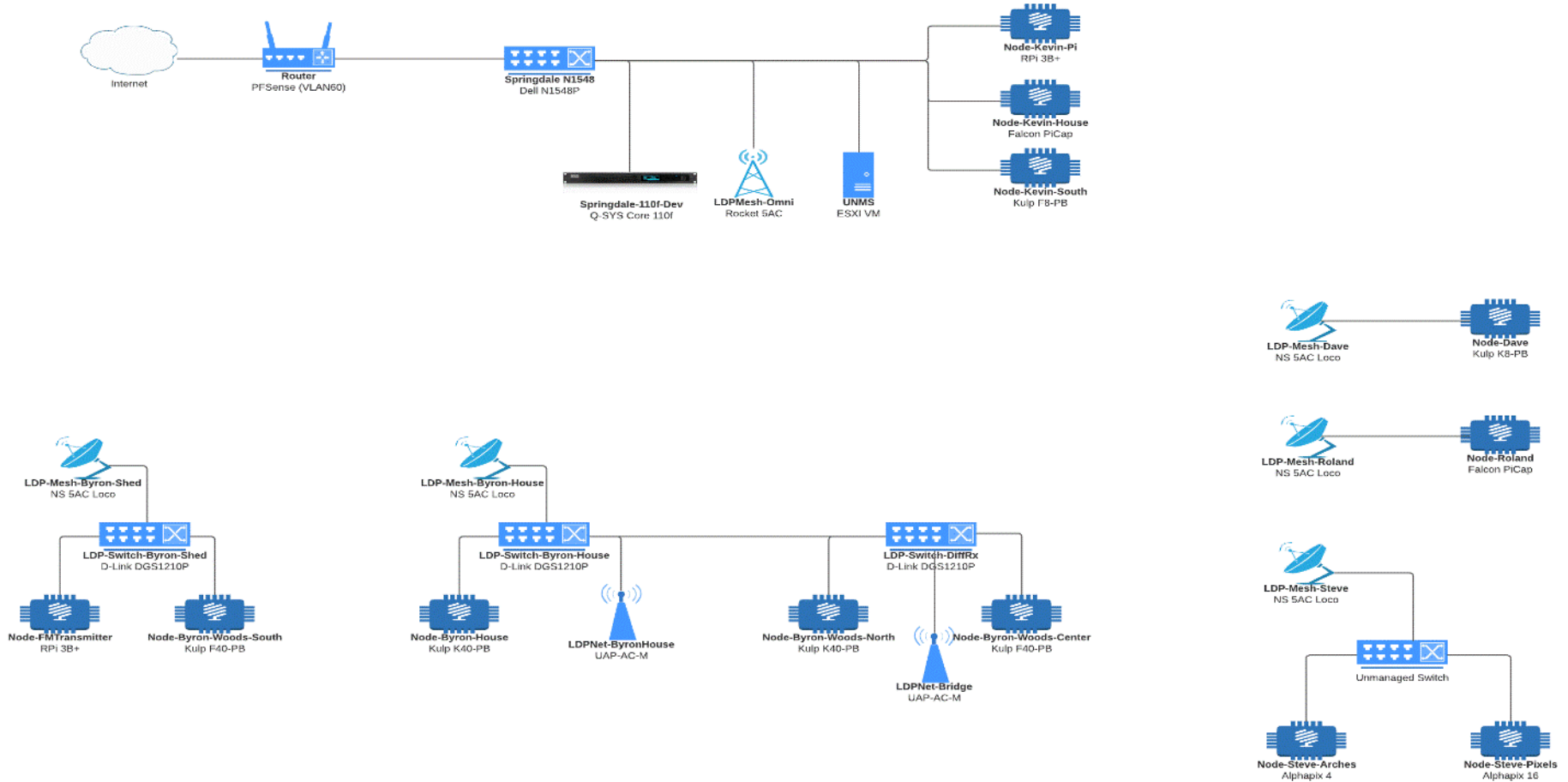
Loco

Switch

GWENDOLYN DR

LDPLights Show Control Network

Kevin Rhodus | December 5, 2020



Controllers

- 2x Kulp K/F-8PB
- 1x Kulp K16PB
- 4x Kulp K/F40-PB
- 61x Differential Receivers
- 3x Falcon PiCap on RPi 3B+
- 2x AlphaPix's
- 16x LOR 16 Channel Controllers



FRABELL DR

K8
2 Diff Rx
8 LOR

K40
16 Diff Rx

F40
12 Diff Rx
1 LOR

K40
12 Diff Rx

PiCap
4 LOR

SPRINGDALE DR

K16
6 Diff Rx
1 LOR

F40
10 Diff Rx

Pi 3B+
Master / FM

LAKEVIEW DR

PiCap
1 LOR

F8
3 Diff Rx

HARRIOTT RD

2x Apix
1 LOR

GWENDOLYN DR



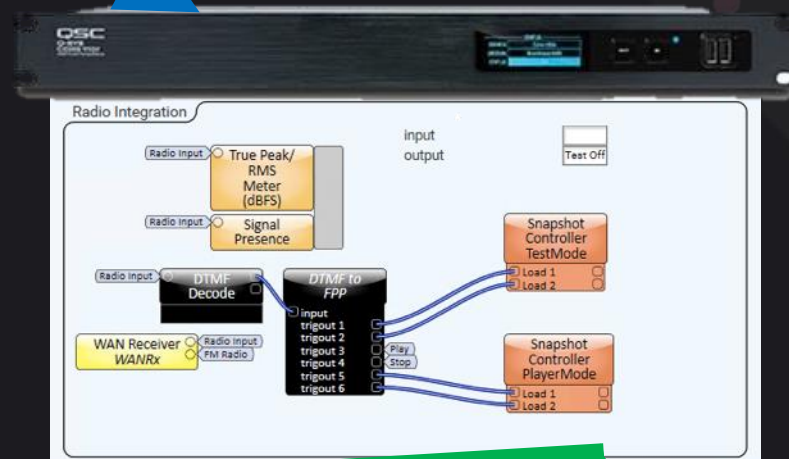


TEST ON

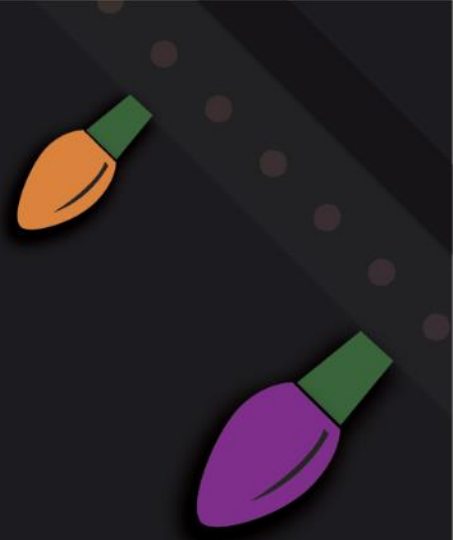
P0

P1

ICOM



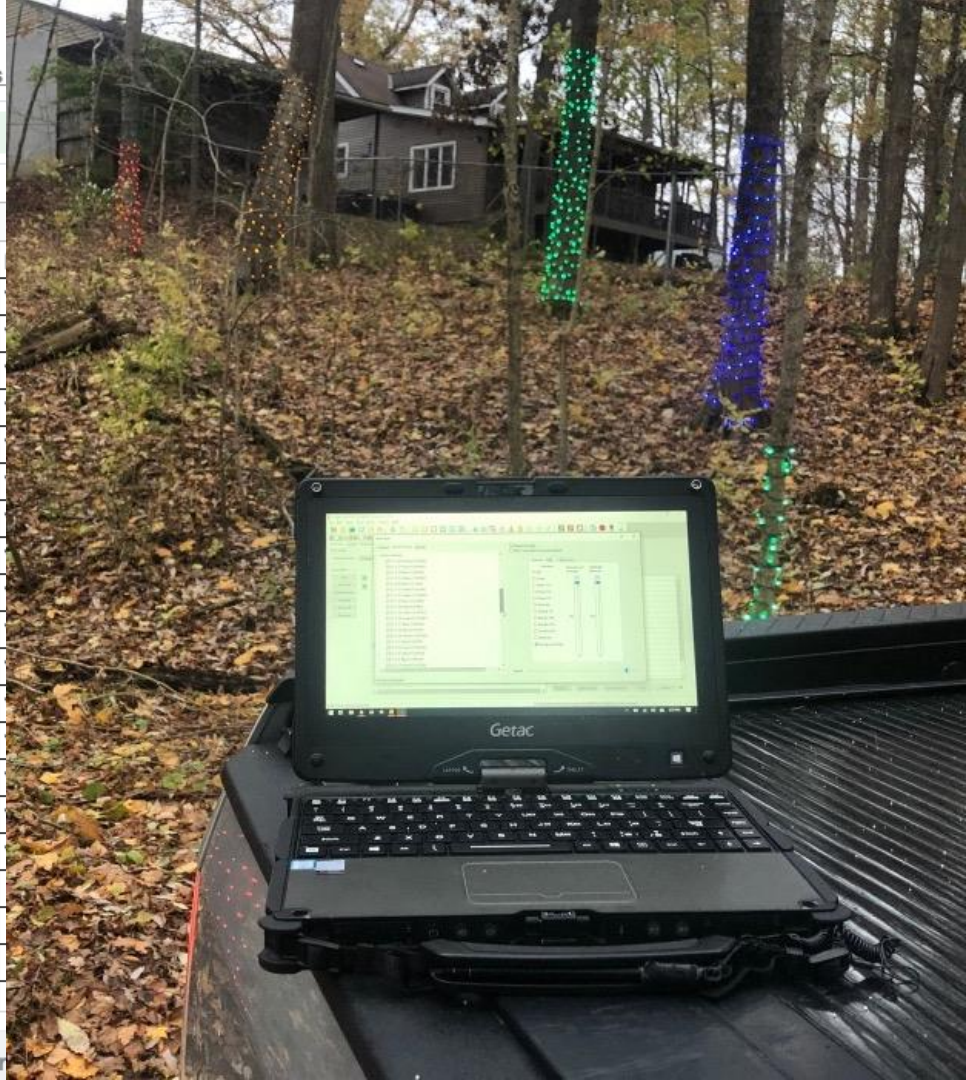
October 2020: Mapping / Programming





















A1 fx DMX

	A	B	C	D	E
1	DMX	Name	Box ID	Ch	Location
2	1	1:Flood Far South Springdale	01	1	Springdale East
3	2	2:Flood	01	2	Springdale East
4	3	3:Flood	01	3	Springdale East
5	4	4:Flood	01	4	Springdale East
6	5	5:Flood	01	5	Springdale East
7	6	6:Flood	01	6	Springdale East
8	7	7:Flood	01	7	Springdale East
9	8	8:Flood	01	8	Springdale East
10	9	9:Flood	01	9	Springdale East
11	10	10:Flood	01	10	Springdale East
12	11	11:Flood	01	11	Springdale East
13	12	12:Flood	01	12	Springdale East
14	13	13:Flood	01	13	Springdale East
15	14	14:Flood	01	14	Springdale East
16	15	15:Flood	01	15	Springdale East
17	16	16:Flood Far North Springdale	01	16	Springdale East
18	17	1:Blue RL Frabell CJ Driveway Group 17	02	1	Charlotte North
19	18	2:White RL Frabell CJ Driveway Group 17	02	2	Charlotte North
20	19	3: Blue RL G18 Lakeview	02	3	Charlotte North
21	20	4:White RL G18 Lakeview	02	4	Charlotte North





Models 3D Objects

Model / Group ^	Start Chan	End Chan	Ctrlr Conn
>  All			
>  All Arches			
▼  All Byron			
>  Bridge			
>  Byron Arches			
>  Byron Fence			
>  Byron House			
>  Byron Trees			
>  Byron Yard			
>  All Dave			
>  All Jay			
>  All Kevin			
>  All LED Trees			
>  All Minus FloodsNoDim			
>  All NonPixel			
>  All Pixel Trees			

xLights - C:\Users\Kevin Rhodus\Google Drive\LDPXmas\XLights\Christmas Show\2020LDPXmas_v1_1.xsq

File Edit Tools View Audio Import Help

Controllers Layout Sequencer

View: Master View
Time: 0:00.00

5:37.00 5:38.00 5:39.00 5:40.00 5:41.00 5:42.00 5:43.00 5:44.00 5:45.00 5:46.00 5:47.00 5:48.00

- CarolBellsBars
- Ending1
- Song 1, 4
- Song 2, 6
- TurnDown
- Song 3 - Notes
- Song 3- Electric
- CarolBellsNotes

All [3]
All Arches [4]
All Byron
All Dave [2]
All Jay [2]
All Kevin
All LED Trees
All Minus FloodsNoDir [3]
All NonPixel [4]
All Pixel Trees
All Pixels [3]
All Roland [2]
All Stephen

Suspend Render

C:\Users\Kevin Rhodus\Google Drive\LDPXmas\XLights\Christmas Show\2020LDPXmas_v1_1.xsq' loaded in 25.370 sec. C:\Users\Kevin Rhodus\Google Drive\LDPXmas\XLights\Christmas Show\2020LDPXmas_v1_1.fseq



Drive

Search in Drive



New



My Drive



Computers



Shared with me



Recent



Starred



Trash



Storage

15.8 GB of 100 GB used

[Buy storage](#)

My Drive > LDPXmas > XLights > Christmas Show



Name ↑

Owner

Last modified

Name ↑	Owner	Last modified
2020 Show Intro_v2.fseq	me	Nov 26, 2020 me
2020 Show Intro_v2.xbcp	me	Nov 25, 2020 me
2020 Show Intro_v2.xsq	me	Nov 26, 2020 me
2020 Show Intro.fseq	Byron Gunter	Nov 27, 2020 me
2020 Show Intro.xbcp	me	Nov 26, 2020 me
2020 Show Intro.xsq	Byron Gunter	Nov 27, 2020 me
2020 Show Over.fseq	Byron Gunter	Nov 27, 2020 me
2020 Show Over.xbcp	me	Nov 26, 2020 me
2020 Show Over.xsq	Byron Gunter	Nov 27, 2020 me
2020HalloweenTest.fseq	me	Nov 1, 2020 me
2020HalloweenTest.xbcp	me	Oct 30, 2020 me



Christmas Show



Details

Activity



Type

Google Drive Folder

Location

XLights

Owner

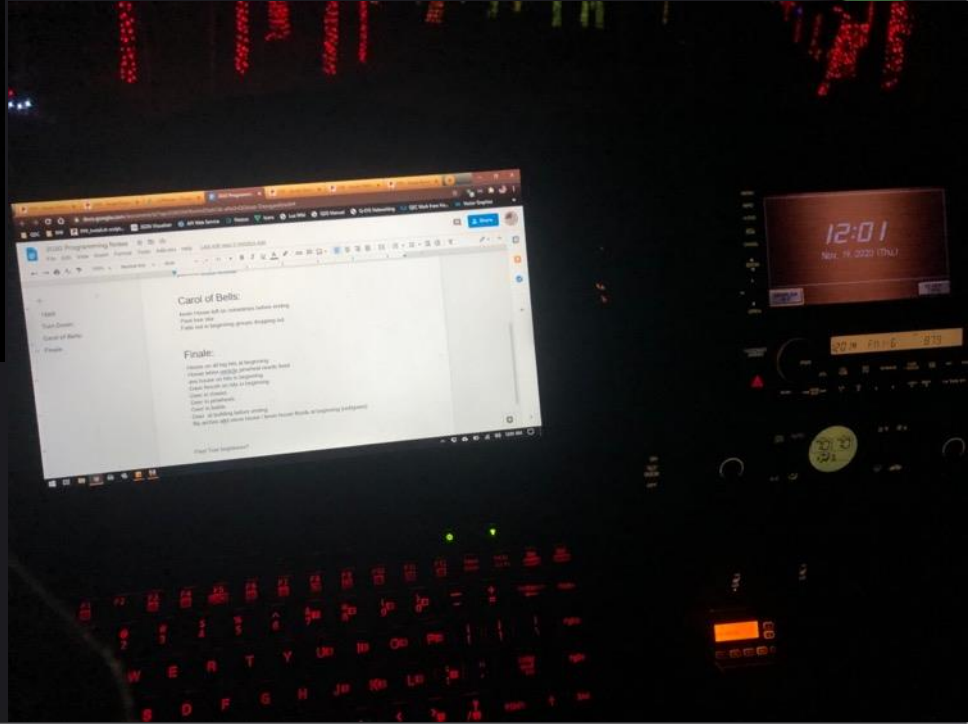
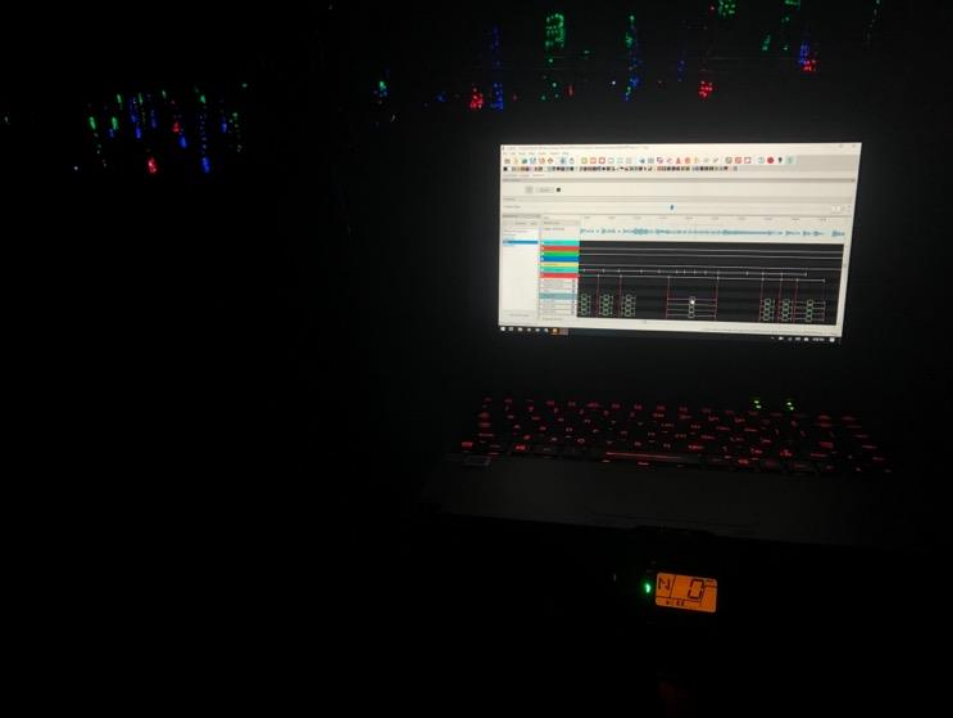
Byron Gunter

Modified

Oct 31, 2019 by Byron Gunter

Opened

12:49 AM by me



- Daytime : Byron Program
- Evening: Review Programming
- Night: Kevin Program



November 27th 2020: Show Opening - Monitoring



29



FRIDAY, NOVEMBER 29, 2019 AT 6 PM EST – 9 PM EST

2nd Annual LDP Lighting Event!

Lucy Depp Park Light Show

 Insights


About


Discussion

 Edit



Details

 10K people responded

 Event by Lucy Depp Park Light Show

 Lucy Depp Park Light Show

Insights

Last 7 Days: Feb 28 - Mar 7



People Reached



Responses





LDP

Address: 9336 Springdale Dr, Powell

Contact person: Kevin Rhodus



Devices

Data Links

Logs

Gallery

Devices

LIST TOPOLOGY

ADD DEVICE

Search & filter devices

<input type="checkbox"/>	Type	Name ↑	FW version	Model	MAC address	
<input type="checkbox"/>		AP-PROGRAMMING		UAP-AC-LR		
<input type="checkbox"/>		LDP-Kevin-Shed-WAP		Unknown		
<input type="checkbox"/>		LDP-Mesh-Byron-House	8.7.1	NanoStation 5AC loco	FC:EC:DA:96:83:45	
<input type="checkbox"/>		LDP-Mesh-Byron-Shed	8.7.1	LiteAP AC	78:8A:20:EC:AE:25	
<input type="checkbox"/>		LDP-Mesh-Dave	8.7.1	NanoStation 5AC loco	74:AC:B9:7C:7D:A3	
<input type="checkbox"/>		LDP-Mesh-KevinShed	8.7.1	NanoStation 5AC loco	FC:EC:DA:C4:77:6F	
<input type="checkbox"/>		LDP-Mesh-Omni AP	8.7.1	Rocket 5AC PTMP	80:2A:A8:64:F4:1C	
<input type="checkbox"/>		LDP-Mesh-PixelTree	8.7.1	NanoStation 5AC loco	E0:63:DA:4E:B8:F8	
<input type="checkbox"/>		LDP-Mesh-Roland	8.7.1	NanoStation 5AC loco	FC:EC:DA:9E:91:03	

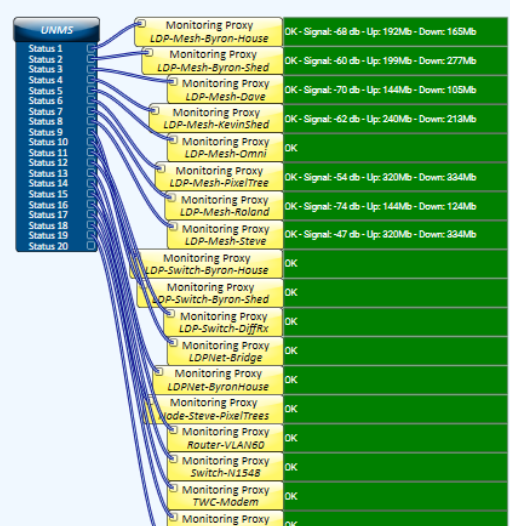


```

51 -----
52 -- Download Player Info --
53 -----
54
55 --FPPD Status
56 function downloadfppdfn(tbl, code, data, err, headers)
57     if code == 200 then --Proper HTTP response
58         Tick:Start(3)
59         Controls.Status.Value = 0 --Set Status value
60         --Insert future line for proxy monitor
61         fppdstatus = json.decode(data)
62         --print(json.encode(fppdstatus, {pretty = true}))
63
64         Controls.Mode.String = fppdstatus.mode_name
65         Controls.FPPstatus.String = fppdstatus.status_name
66         Controls.FPPDRunning.Boolean = fppdstatus.fppd == "running"
67         Controls.FPPDRunning.Color = "#4080FF00"
68         --Controls.Status.Color = "#4080FF00"
69         Controls.Status.String = fppdstatus.mode_name .. " " .. fppdstatus.status_name
70         if fppdstatus.mode ~= 1 then
71             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
72             Controls.ModeName.String = fppdstatus.mode_name
73             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
74             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
75             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
76             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
77             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
78             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
79             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
80             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
81             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
82             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
83             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
84             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
85             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
86             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
87             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
88             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
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93             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
94             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
95             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
96             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
97             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
98             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
99             Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist
100            Controls.CurrentPlaylist.String = fppdstatus.current_playlist.playlist

```

UNMS Devices



Currently Playing

Playlist: Show Over
Stop Time: Mon 00:00:00
Next Playlist: Show Over

03:53

Monday @ 00:00:00 - (Everyday)



Map



Controllers



Devices



Sequences

ntals

Currently Playing

Sequence: 2020LDPXmas_v1_1.fseq
Stop Time: 00:23
Next Sequence: Programming Sunday @ 17:00:00 - (Everyday)



Map



Controllers



Network



Sequences

ntals

Quick Access

All Test Mode:

Player Mode:

On

Off

Master/Remote

Bridge



Node-FMTransmitter

Status: OK - master playing

Current Playlist: Show Over

Media Name: 2019-20 Show Over.mp3

Sequence Name: 2020 Show Over.fseq

Sequence Time: 04:20

Scheduled Start Time: 22:00:00

Actual Start Time: 22:01:37

Scheduled Stop Time: Mon 00:00:00

Next Playlist: Show Over

Next Time: Monday @ 00:00:00 - (Everyday)

Set Player Mode: Master

Test Mode: On Off

Node-Kevin-North

Status: OK - remote playing

Media Name:

Sequence Name: 2020 Show Over.fseq

Sequence Time: 04:20

Set Player Mode: Remote

Test Mode: On Off

Node-Kevin-South

Status: OK - remote playing

Media Name:

Sequence Name: 2020 Show Over.fseq

Sequence Time: 04:21

Set Player Mode: Remote

Test Mode: On Off

Node-Kevin-House

Status: OK - remote playing

Media Name:

Sequence Name: 2020 Show Over.fseq

Sequence Time: 04:20

Set Player Mode: Remote

Test Mode: On Off

Node-Byron-House

Status: OK - remote playing

Media Name:

Sequence Name: 2020 Show Over.fseq

Sequence Time: 04:19

Set Player Mode: Remote

Test Mode: On Off



Map



Controllers



Devices



Sequences



Next Page

entials

Currently Playing

Playlist: Show Over
Stop Time: 00:00:00
Next Playlist: LDP2020

04:41

Monday @ 17:00:00 - (Sun-Thurs)



Mesh Antennas

LDP-Mesh-Byron-House	OK - Signal: -68 db - Up: 103Mb - Down: 125Mb
LDP-Mesh-Byron-Shed	OK - Signal: -56 db - Up: 320Mb - Down: 334Mb
LDP-Mesh-Dave	OK - Signal: -69 db - Up: 192Mb - Down: 170Mb
LDP-Mesh-KevinShed	OK - Signal: -61 db - Up: 240Mb - Down: 207Mb
LDP-Mesh-Omni	OK
LDP-Mesh-PixelTree	OK - Signal: -51 db - Up: 320Mb - Down: 334Mb
LDP-Mesh-Roland	OK - Signal: -73 db - Up: 95Mb - Down: 129Mb
LDP-Mesh-Steve	OK - Signal: -47 db - Up: 320Mb - Down: 334Mb

Switches

LDP-Switch-Byron-House	OK
LDP-Switch-Byron-Shed	OK
LDP-Switch-DiffRx	OK
LDP-Switch-N1548	OK
Router VLAN60	OK
TWC Modem	OK
UNMS (ESXI)	OK

Access Points

LDPNet-Bridge	OK
LDPNet-ByronHouse	OK

FM Transmitter

Power	OK		
Transmit Monitor	OK - Audio Playing		

Radio Control

Radio Input: OK - Receiving 1 stream

Last Command:

Controllers

Node-Steve-PixelTrees	OK
Node-Steve-Arches	OK



Map



Controllers



Devices



Sequences





Currently Playing

Playlist: Show Over
Stop Time: 08:00:00
Next Playlist: LDP2020

00:15

Monday @ 17:00:00 - (Sun-Thurs)

Sequences

- AudioTest
- Halloween
- LDP2020**
- OpeningTest
- Programming
- Show Over



Stop



Play Selected



Map



Controllers

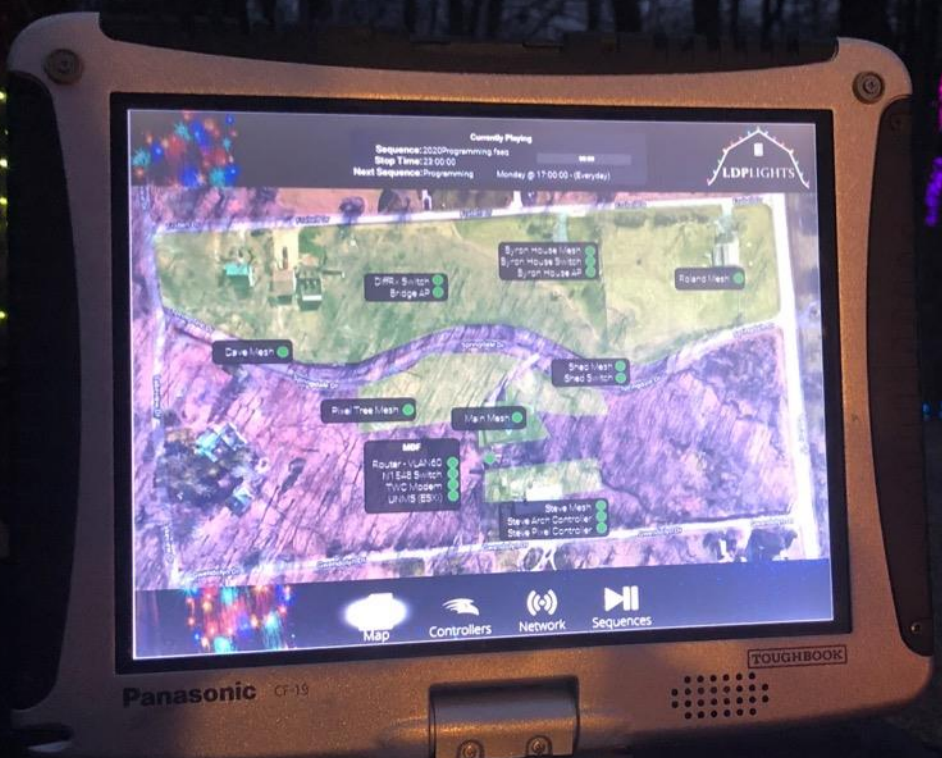


Devices



Sequences

entials



Currently Playing
Sequence: 0020 Programming fees
Stop Time: 23:00:00
Next Sequence: Programming Monday @ 17:00:00 (Everyday)



- Map
- Controllers
- Network
- Sequences

Panasonic CF-19

TOUGHBOOK



Questions?

Questions?



2021.7

xEssentials

