

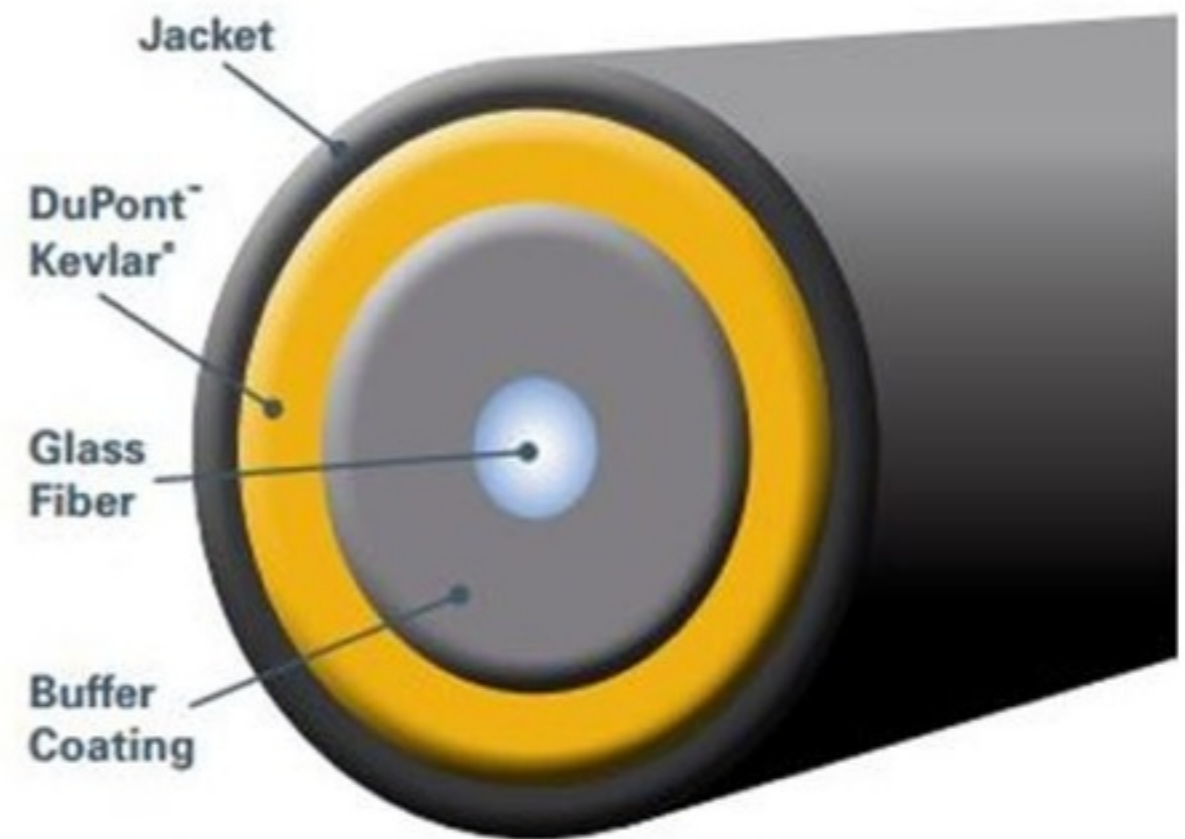
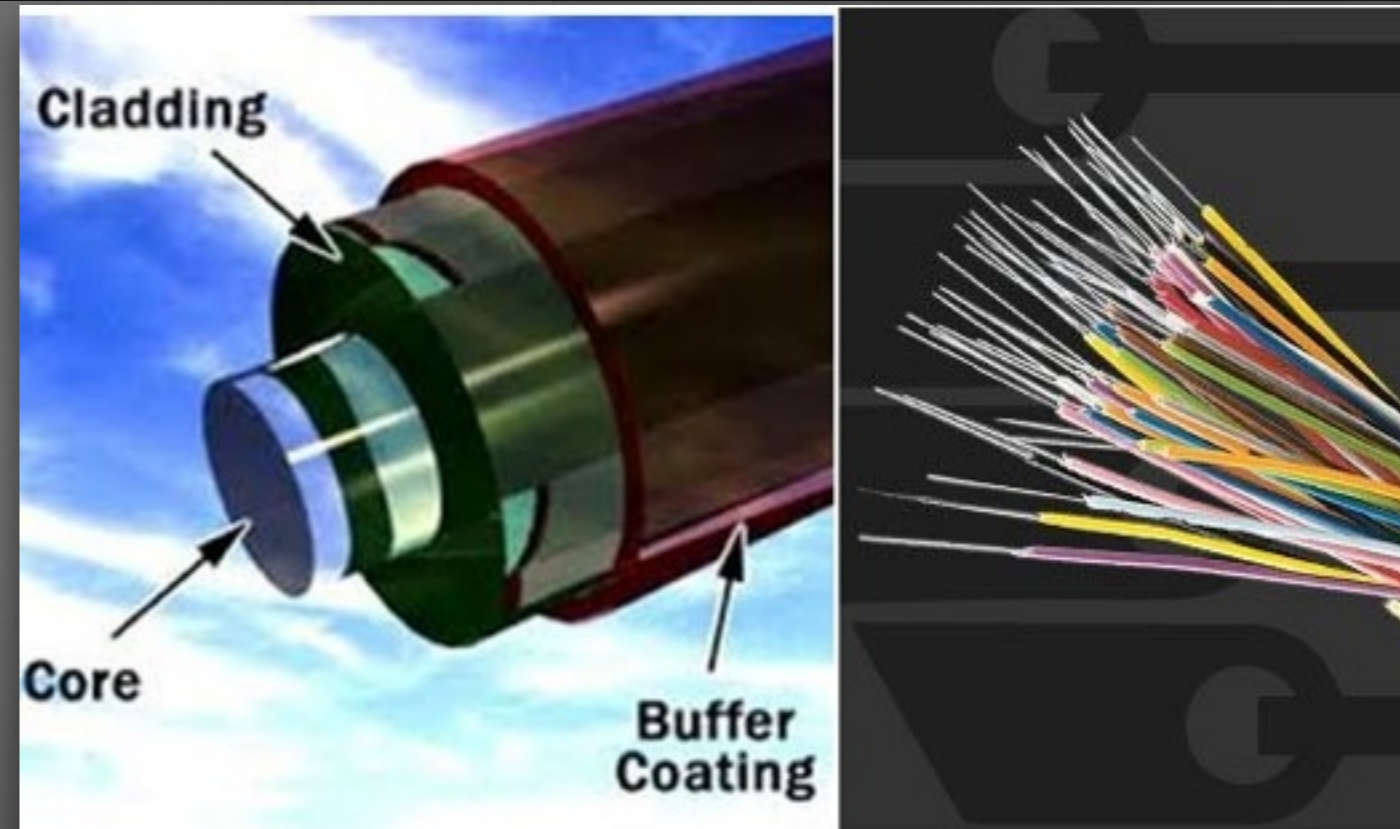


Public Safety Data Network



What is Fiber Optic Cable?

Fiber Optic Cables are strands of optically pure glass as thin as a human hair that carry digital information over long distances using light.



Cross-sectional view of a single fiber optical cable shows the tight buffered fiber completely covered by DuPont™ Kevlar® K29 AP 670 dtex yarn.

Why Fiber Optic Cable?

Less Expensive

- * Several miles of fiber can be made cheaper than similar lengths of copper wire.
- * More fibers can be bundled into a given-diameter cable than copper wire.

Why Fiber Optic Cable?

Less Signal Degradation

- * Light signals do not interfere with those of other fibers unlike electrical signals in copper wires.

What is the PSDN?

Public Safety Data Network features:

- High speed data connectivity to all 104 PSAPs and approximately 411 additional public safety locations
- Fiber optic reliability (99.999%)
- System architecture utilizing multiple rings and multiple touch points between the rings, constructed with carrier-class equipment provisioned with redundant facilities, all designed to withstand multiple failures without affecting service

What is the PSDN?

- Highly secure implementation, partitioned to protect NG911 service in every instance
- Significant savings over current network costs
- Significant increase in efficiency
- Easy upgradability to provide additional speed and/or connectivity without requiring "forklift upgrades"
- Ability for each PSAP to serve as a connection point for other public safety locations (Local, State, and Federal) to connect into the network

PSDN Utilization



Primary applications that will initially utilize the PSDN for transport and connectivity:

- * Next-Generation 9-1-1 (NG911) Services
- * DESPP, Connecticut On-Line Law Enforcement Communications Teleprocessing (COLLECT) System
- * Statewide shared radio application for radio interoperability (commonly known as the "P25" controller)

How will the PSDN benefit LCD and the services we dispatch?

- * LCD submitted an application to the Division of Statewide Emergency Telecommunications (DSET) and is currently in the process of meeting with DSET and the Bureau of Enterprise Systems & Technology (BEST) so the network can perform at the highest level based on the application LCD submitted.
- * Within the main PSDN application submitted to DSET there were four sub-applications (A-D) that will perform different duties on the network.

Sub-Application A

This application will allow LCD to share our CAD with the services we dispatch and provide a status display screen at all the firehouses. The status screen will show active and past incidents for your respective department as well as road closures in your town.

Litchfield County Dispatch Status											AS OF: 11/07/2013 20:10:14	
PENDING RESPONSES												
INCIDENT # 15755 TIME: 11/07/2013 20:08:53	ADDRESS CHURCHILL RD & COLEBROOK RD (RT 183), COLEBROOK			Age: Sex: Bre: Cons: 55 ELECTRICAL HAZARD Transformer Outside (Wire or Pole) (55-A-1) Caller Statement: tree and wires down								
SERVICE COLEBROOK FIRE	APT: FLOOR: Alarm Level: 1			FIRE KQ RESPONSES The caller is on scene (1st party). A transformer (outside) is involved. Neither flames nor smoke are visible. The power has been disconnected. The caller cannot see any wires arcing. The hazard does not involve water. It is not known if there are strange or unusual odors. No one is near or in contact with the electrical hazard. No one is reported to be injured.								
INCIDENT # 15755 TIME: 11/07/2013 20:08:53	ADDRESS CHURCHILL RD & COLEBROOK RD (RT 183), COLEBROOK			Age: Sex: Bre: Cons: 55 ELECTRICAL HAZARD Transformer Outside (Wire or Pole) (55-A-1) Caller Statement: tree and wires down								
SERVICE COLEBROOK 1ST RESP	APT: FLOOR: Alarm Level: 1			FIRE KQ RESPONSES The caller is on scene (1st party). A transformer (outside) is involved. Neither flames nor smoke are visible. The power has been disconnected. The caller cannot see any wires arcing. The hazard does not involve water. It is not known if there are strange or unusual odors. No one is near or in contact with the electrical hazard. No one is reported to be injured.								
ACTIVE SERVICE RESPONSES: 4												
Nature - Nature Description	Location	Town	Service	Disp	Resp	Arrive	Depart	Destination	Units	Priority		
23 OVERDOSE / POISONING - (HOT)	145 LAKE ST	WINCHESTER	MEDIC 6	19:28	19:29	19:34	19:41	CHH	MED 6	3		
6 BREATHING PROBLEM - (HOT)	26 ROYER ST	WINCHESTER	CAMPION MEDIC	19:45	19:45	19:56			MEDIC	3		
55 ELECTRICAL HAZARD - Transformer Outside (Wire or Pole) (55-A- 1)	CHURCHILL RD & COLEBROOK RD (RT 183)	COLEBROOK	COLEBROOK FIRE	20:08						3		
55 ELECTRICAL HAZARD - Transformer Outside (Wire or Pole) (55-A- 1)	CHURCHILL RD & COLEBROOK RD (RT 183)	COLEBROOK	COLEBROOK 1ST RESP	20:08						3		

Sub-Application B

This will provide a direct voice connection for emergency communications between LCD and each fire station or EMS facility. The main goal is to use this voice connection as a supplement for the Intracounty radio system in a widespread incident.



Sub-Application C

This will allow radio traffic to be routed through the fiber and the microwave. It will pick the best path for transport dependent on current conditions.

This will also allow current sites, that use expensive T1 transport to utilize fiber instead. It will also allow new sites that currently have fiber installed to be affordably added to the current simulcast system to bridge coverage gaps.





Sub-Application D

This will provide an offsite backup for our new virtual environment.



Litchfield County Dispatch Status
PENDING RESPONSES

AS OF: 11/12/2013 08:47:56

INCIDENT # 15977
TIME: 11/12/2013 08:17:24

ADDRESS
14 WHITE RD, LITCHFIELD

SERVICE
NORTHFIELD 1ST RESP

APT: BARLOW RESD FLOOR:

Alarm Level: 1

CROSS STREETS
NEWTON RD AND DEAD END

Age: 87Y Sex: F Bre: Y Cons: Y
17 FALLS
NON-RECENT (>6hrs) injuries (no priority symptoms) (17-A-2)

Caller Statement: WIFE FELL

MEDICAL KQ RESPONSES
This happened more than 6hrs ago.
It's reported that she fell at ground level.
The fall was accidental.
There is no bleeding now.
She is completely alert (responding appropriately).
She has no injuries.
She is still on the floor (ground).

INCIDENT # 15979
TIME: 11/12/2013 08:30:39

ADDRESS
203 LEDGE DR, TORRINGTON

SERVICE
BURRVILLE FIRE

APT: LAKE RIDGE CONDOS FLOOR:

Alarm Level: 1

CROSS STREETS
LAKERIDGE AND

Age: Sex: Bre: Cons:
52 ALARMS
Residential (Single) Smoke Detector (52-B-1-S)

Caller Statement: FIRE ALARM

FIRE KQ RESPONSES
The caller is an alarm monitoring company.
It is a smoke detector alarm.
The incident involves a single-family residential structure.
The name of the business/resident/owner is not known.
The area or zone activated is: ZONE 1

ACTIVE SERVICE RESPONSES: 7

Nature - Nature Description	Location	Town	Service	Disp	Resp	Arrive	Depart	Destination	Units	Priority
12 CONVULSIONS / SEIZURES - CONTINUOUS or MULTIPLE seizures (12-D-2)	176 LAKE SHORE DR	NEW HARTFORD	NEW HARTFORD AMB	14:41	14:45	14:52	15:16	CHH	AMB-1	3
12 CONVULSIONS / SEIZURES - CONTINUOUS or MULTIPLE seizures (12-D-2)	176 LAKE SHORE DR	NEW HARTFORD	MEDIC 6	14:41	14:44	14:53	15:16	CHH	MED 6	3
29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	E MAIN ST (RT 202) & WALL ST	TORRINGTON	BURRVILLE FIRE	15:17					CAR 45	3
29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	E MAIN ST (RT 202) & WALL ST	TORRINGTON	DRAKEVILLE FIRE	15:17						3
29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	E MAIN ST (RT 202) & WALL ST	TORRINGTON	T-FORD FIRE	15:17						3
29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	E MAIN ST (RT 202) & WALL ST	TORRINGTON	LITCHFIELD AMB	15:19	15:20				AMB-9	3
29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	E MAIN ST (RT 202) & WALL ST	TORRINGTON	TORRINGTON FIRE	15:11	15:12	15:14			D1 E4 L2	3

PREVIOUS 5 RESPONSES

INC #	Date	Service	Address	Town	Nature - Nature Description	Disp	Enr	Arv	Dep	Destination	Hosp	RTS	Time Enroute	Time OS	Time Transp
15782	11/08/13	BURRVILLE FIRE	E MAIN ST (RT 202) & WALL ST	TORRINGTON	29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	15:17							0:00	0:00	0:00
15782	11/08/13	DRAKEVILLE FIRE	E MAIN ST (RT 202) & WALL ST	TORRINGTON	29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	15:17							0:00	0:00	0:00
15782	11/08/13	T-FORD FIRE	E MAIN ST (RT 202) & WALL ST	TORRINGTON	29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	15:17							0:00	0:00	0:00
15782	11/08/13	LITCHFIELD AMB	E MAIN ST (RT 202) & WALL ST	TORRINGTON	29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	15:19	15:20						1:16	0:00	0:00
15782	11/08/13	TORRINGTON FIRE	E MAIN ST (RT 202) & WALL ST	TORRINGTON	29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	15:11	15:12	15:14					1:16	8:05	0:00

STREET CLOSURES

Address	Town	Note	Est End
AMESVILLE BRIDGE & DUGWAY RD.	SALISBURY		06/23/2014 00:00
86 - 86 WEST MORRIS RD	LITCHFIELD	MORRIS IS TO BE DISPATCHED FOR ANY ADDRESS ABOVE 86 WEST MORRIS RD	08/09/2014 00:00
CARPENTER RD & LITCHFIELD TPKE (RT 202)	NEW HARTFORD	BRIDGE ON CARPENTER RD OFF 202 CONNECTING TO DINGS ROAD IS CLOSED UNTIL FURTHER NOTICE DUE TO STRUCTURAL INTEGRITY. NO VEHICLES WILL BE ABLE TO GO THROUGH!!!!!!!!!!	06/01/2015 00:00

HOSPITAL STATUS

Destination	Status	Due Off
CHH	OPEN	
NEW MILFORD	OPEN	
SHARON	OPEN	
WINSTED	OPEN	
FAIRVIEW	OPEN	
DANBURY	OPEN	
WATERBURY	OPEN	

Litchfield County Dispatch Status

AS OF: 11/08/2013 15:15:15

ACTIVE SERVICE RESPONSES: 4

Nature - Nature Description	Location	Town	Service	Disp	Resp	Arrive	Depart	Destination	Units	Priority
33 TRANSFER/INTERFACILITY - ACUITY I (no priority symptoms) (33-A-1)	19 CONSTITUTION WAY	LITCHFIELD	LITCHFIELD AMB	14:33	14:35	14:38	14:50	CHH	AMB-9	3
12 CONVULSIONS / SEIZURES - CONTINOUS or MULTIPLE seizures (12-D-2)	176 LAKE SHORE DR	NEW HARTFORD	NEW HARTFORD AMB	14:41	14:45	14:52			AMB-1	3
12 CONVULSIONS / SEIZURES - CONTINOUS or MULTIPLE seizures (12-D-2)	176 LAKE SHORE DR	NEW HARTFORD	MEDIC 6	14:41	14:44	14:53			MED 6	3
29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	E MAIN ST (RT 202) & WALL ST	TORRINGTON	TORRINGTON FIRE	15:11	15:12	15:14			D1 E4	3

PREVIOUS 5 RESPONSES

INC #	Date	Service	Address	Town	Nature - Nature Description	Disp	Enr	Arv	Dep	Destination	Hosp	RTS	Time Enroute	Time OS	Time Transp
15782	11/08/13	TORRINGTON FIRE	E MAIN ST (RT 202) & WALL ST	TORRINGTON	29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	15:11	15:12	15:14					1:16	1:03	0:00
15780	11/08/13	NEW HARTFORD AMB	176 LAKE SHORE DR	NEW HARTFORD	12 CONVULSIONS / SEIZURES - CONTINOUS or MULTIPLE seizures (12-D-2)	14:41	14:45	14:52					6:51	23:05	0:00
15780	11/08/13	MEDIC 6	176 LAKE SHORE DR	NEW HARTFORD	12 CONVULSIONS / SEIZURES - CONTINOUS or MULTIPLE seizures (12-D-2)	14:41	14:44	14:53					9:01	21:58	0:00
15779	11/08/13	LITCHFIELD AMB	19 CONSTITUTION WAY	LITCHFIELD	33 TRANSFER/INTERFACILITY - ACUITY I (no priority symptoms) (33-A-1)	14:33	14:35	14:38	14:50	CHH	15:00	15:12	2:15	11:54	10:16
15778	11/08/13	TORRINGTON FIRE	ROBERTS ST & HIGHLAND AVE	TORRINGTON	29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	14:09	14:10	14:13					2:31	0:00	0:00

STREET CLOSURES

Address	Town	Note	Est End
AMESVILLE BRIDGE & DUGWAY RD.	SALISBURY		06/23/2014 00:00
86 - 86 WEST MORRIS RD	LITCHFIELD	MORRIS IS TO BE DISPATCHED FOR ANY ADDRESS ABOVE 86 WEST MORRIS RD	08/09/2014 00:00
CARPENTER RD & LITCHFIELD TPKE (RT 202)	NEW HARTFORD	BRIDGE ON CARPENTER RD OFF 202 CONNECTING TO DINGS ROAD IS CLOSED UNTIL FURTHER NOTICE DUE TO STRUCTURAL INTEGRITY. NO VEHICLES WILL BE ABLE TO GO THROUGH!!!!!!!!!!!!	06/01/2015 00:00

HOSPITAL STATUS

Destination	Status	Due Off
CHH	OPEN	
NEW MILFORD	OPEN	
SHARON	OPEN	
WINSTED	OPEN	
FAIRVIEW	OPEN	
DANBURY	OPEN	
WATERBURY	OPEN	
ST MARYS	OPEN	

LCD Mobile Status

AS OF: 11/08/2013 15:16:04

ACTIVE SERVICE RESPONSES: 6

Nature - Nature Description	Location	Town	Service	Disp	Resp	Arrive	Depart	Destination	Units	Priority	Dspch
33 TRANSFER/INTERFACILITY - ACUITY I (no priority symptoms) (33-A-1)	19 CONSTITUTION WAY	LITCHFIELD	LITCHFIELD AMB	14:33	14:35	14:38	14:50	CHH	AMB-9	3	LCD48
12 CONVULSIONS / SEIZURES - CONTINUOUS or MULTIPLE seizures (12-D-2)	176 LAKE SHORE DR	NEW HARTFORD	NEW HARTFORD AMB	14:41	14:45	14:52			AMB-1	3	LCD40
12 CONVULSIONS / SEIZURES - CONTINUOUS or MULTIPLE seizures (12-D-2)	176 LAKE SHORE DR	NEW HARTFORD	MEDIC 6	14:41	14:44	14:53			MED 6	3	LCD40
12 CONVULSIONS / SEIZURES - FOCAL seizures (not alert) (12-C-1)	540 LITCHFIELD ST	TORRINGTON	CAMPION AMB	15:10					AMB	3	LCD48
29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	E MAIN ST (RT 202) & WALL ST	TORRINGTON	CAMPION AMB	15:11	15:14				AMB	3	LCD40
29 TRAFFIC ACCIDENT - Unknown status/ Other codes not applicable (29-B-4)	E MAIN ST (RT 202) & WALL ST	TORRINGTON	TORRINGTON FIRE	15:11	15:12	15:14			D1 E4 L2	3	LCD40

Inbound Patients - CHH

AS OF: 11/08/2013 15:16:59

ACTIVE SERVICE RESPONSES: 3

Nature - Nature Description	Location	Town	Service	Disp	Resp	Arrive	Depart	Destination	Units	Priority
33 TRANSFER/INTERFACILITY - ACUITY I (no priority symptoms) (33-A-1)	19 CONSTITUTION WAY	LITCHFIELD	LITCHFIELD AMB	14:33	14:35	14:38	14:50	CHH	AMB-9	3
12 CONVULSIONS / SEIZURES - CONTINUOUS or MULTIPLE seizures (12-D-2)	176 LAKE SHORE DR	NEW HARTFORD	NEW HARTFORD AMB	14:41	14:45	14:52	15:16	CHH	AMB-1	3
12 CONVULSIONS / SEIZURES - CONTINUOUS or MULTIPLE seizures (12-D-2)	176 LAKE SHORE DR	NEW HARTFORD	MEDIC 6	14:41	14:44	14:53	15:16	CHH	MED 6	3

STREET CLOSURES

Address	Town	Note	Est End
AMESVILLE BRIDGE & DUGWAY RD.	SALISBURY		06/23/2014 00:00
86 - 86 WEST MORRIS RD	LITCHFIELD	MORRIS IS TO BE DISPATCHED FOR ANY ADDRESS ABOVE 86 WEST MORRIS RD	08/09/2014 00:00
CARPENTER RD & LITCHFIELD TPKE (RT 202)	NEW HARTFORD	BRIDGE ON CARPENTER RD OFF 202 CONNECTING TO DINGS ROAD IS CLOSED UNTIL FURTHER NOTICE DUE TO STRUCTURAL INTEGRITY. NO VEHICLES WILL BE ABLE TO GO THROUGH!!!!!!!!!!	06/01/2015 00:00

HOSPITAL STATUS

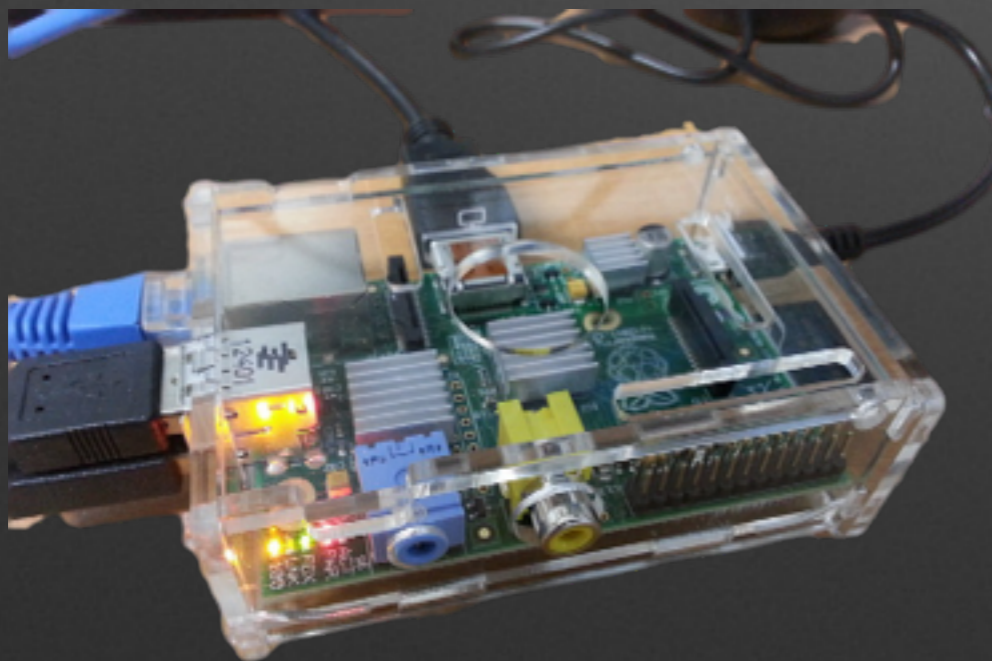
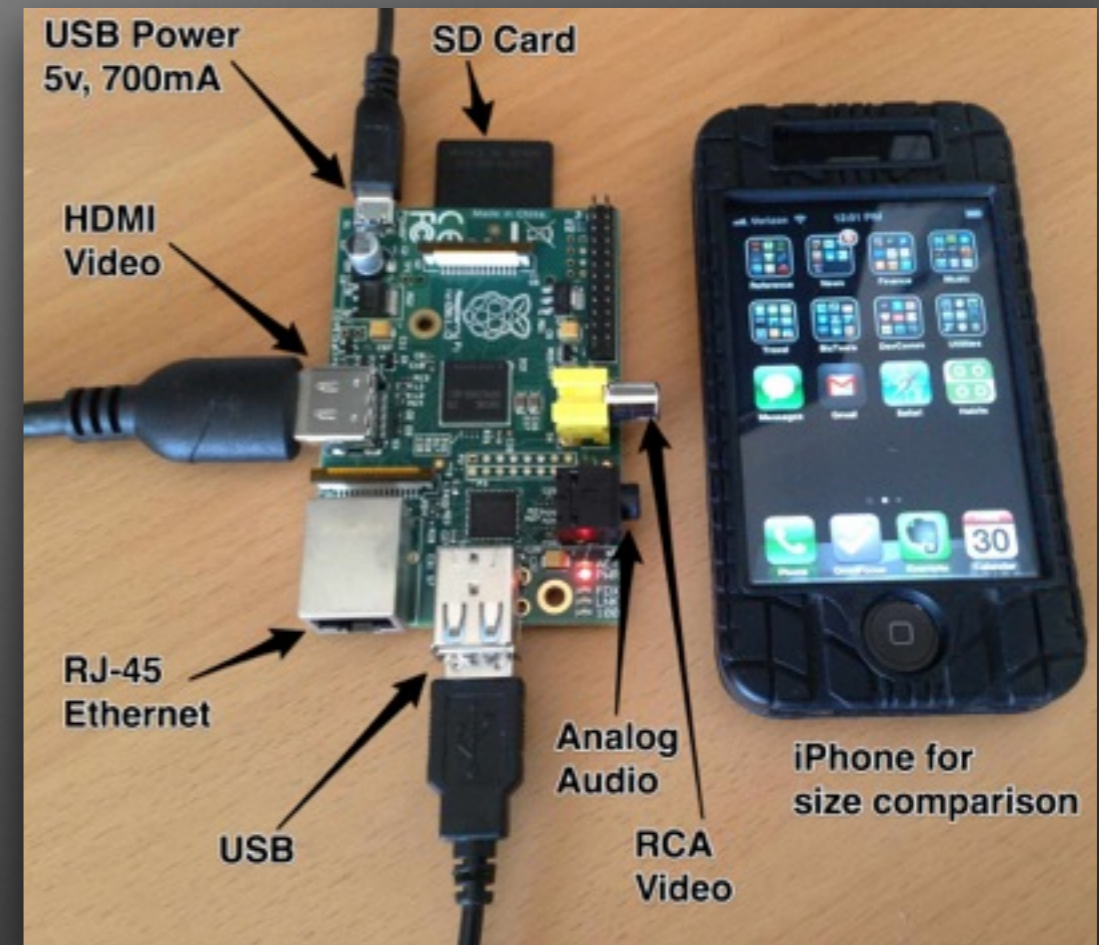
Destination	Status	Due Off
CHH	OPEN	
NEW MILFORD	OPEN	
SHARON	OPEN	
WINSTED	OPEN	
FAIRVIEW	OPEN	
DANBURY	OPEN	
WATERBURY	OPEN	
ST MARYS	OPEN	

Under Development...

- * Direct access to service reports.
- * Capabilities to self-dispatch during large scale incidents.
- * Direct Firehouse Software Interface.

Raspberry Pi

- * Small, affordable credit card sized micro-computer.
- * ~\$100 includes keyboard, mouse, power supply, SDcard, case and HDMI cable.



WAN/Internet Pricing



Education/Municipality Pricing

- * \$7.79/MB/month + \$113.35 port fee/month
- * Minimum of 10MBs

Municipality: 10Mbps = \$191.25/month

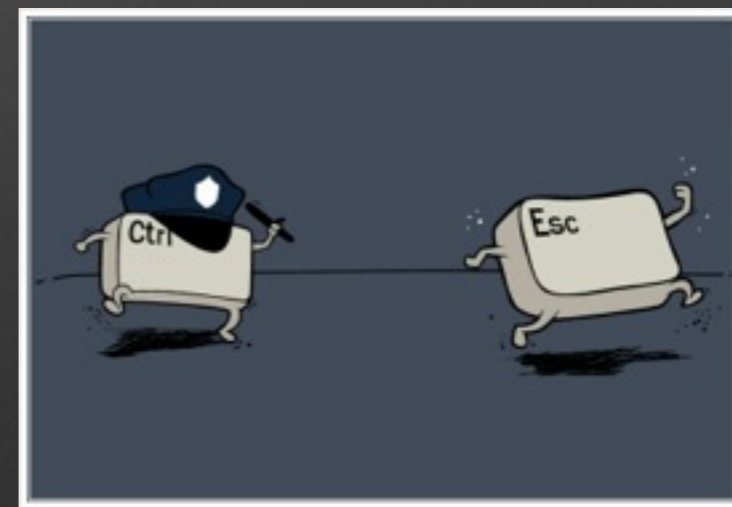
****Non-Municipality: 10Mbps = \$478.08/month****





Never touch or unplug PSDN equipment. Unplanned disruption to this equipment could disrupt service to other emergency locations.

If you are having trouble with PSDN equipment or would like it moved to another location within your facility please contact DAS/BEST: (860) 622-2300.



Building Access & Technical Contacts

LCD is in process of building a contact list in case access to your building or technical data is required. We are looking for a technical contact as well as a physical access contact.

Please e-mail these contacts directly to; The LCD Systems Administrator:
bmirizzi@lcd911.com





My Contact Information

Brian Mirizzi
Systems Administrator
(860) 626-7521
bmirizzi@lcd911.com