Certification Requirements for BTOP

U.S. Department of Commerce **Broadband Technology Opportunities Program**

I certify that I am the duly authorized representative of the applicant organization, and that I have been authorized to submit the attached application on its behalf. A copy of the applicant organization's authorization for me to submit this application as its official representative is on file in the applicant's office, and I am identified as the applicant organization's Authorized Organization Representative (AOR) in the Central Contractor Registration database. By signing this certification, I certify that the statements contained in the application are true, complete, and accurate to the best of my knowledge, and that if an award is made, the applicant organization will comply with all applicable award terms and conditions.

Daviel J. Gallagher Name: Prosident Openape Corporation Title:

OpenCape

ATTACHMENT E - PROJECT PLAN (KEY PHASES AND MILESTONES TO DEMONSTRATE DEGREE OF COMPLETION)

Use the following table to list the major network build-out phases and milestones that can demonstrate that your entire project will be substantially complete by the end of Year 2 and fully complete by the end of Year 3. This is to be done at the aggregate level (combining all proposed funded service areas.) Indicate how the milestones listed below will demonstrate these completion objectives. The applicant should consider such project areas as: a) network design; b) securing all relevant licenses and agreements; c) site preparation; d) equipment procurement; e) inside plant deployment; f) outside plant deployment; g) equipment deployment; h) network testing; i) network complete and operational. The applicant may provide any other milestones that it believes showcase progress. Project inception (Year 0) starts at the date when the applicant receives notice that the project has been approved for funding. In the table, provide any information (e.g., facts, analysis) to: a) demonstrate the reasonableness of these milestones; b) substantiate the ability to reach the milestone by the quarter indicated. On a separate sheet, describe the key challenges, if any, to a timely completion of the project, including any applicable mitigation plans.

OpenCape prepared a detailed list of phases and milestones. The online grant application system would not convert the pdf file in its entirety. Therefore, we are providing two of the items here and the full phases and milestone plan as Supplemental 3 within our submission. Please refer to Supplemental 3 for our full Attachment E submission.

ATTACHMENT E (CONTINUED) - BUILD-OUT TIMELINE

Complete the following schedule for each proposed funded service area (or, if a middle mile project, for each last mile service area) to indicate the planned build-out in terms of: 1) the requested infrastructure funds; and 2) the entities passed. Entities passed include households, businesses, and "strategic institutions" comprised of critical community facilities, community anchor institutions, and public safety entities. In addition, please complete a separate schedule that aggregates all projected broadband subscribers within the proposed funded service area (or if a middle mile project, for each last mile service area). For BIP only, please include this information for the non-funded service areas as well.

	Name: O	penCape Corp	poration												
	V 0		YEAR 1				YEAR 2		V		YEAR 3			VEADA	VEADE
	Year 0	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	YEAR 4	YEAR 5
Infrastructure Funds															
Intrstructure Funds Advanced (estimate)		600,000	1,500,000	4,250,000	6,000,000	6,500,000	7,500,000	6,000,000	3,000,000	2,500,000	1,500,000	700,000	300,000		
Percentage of Total Funds		1.5%	3.7%	10.5%	14.9%	16.1%	18.6%	14.9%	7.4%	6.2%	3.7%	1.7%	0.7%		
Entities Passed & %															
Households			7387	7270	37276	120743	16257	48543	5040	47475	16510	14703	3		
Percentage of Total Households			2.3%	2.3%	11.6%	37.6%	5.1%	15.1%	1.6%	14.8%	5.1%	4.6%	ś		
Business			811	361	3095	8158	4067	1693	165	1798	775	713	3		
Percentage of Total Businesses			3.7%	1.7%	14.3%	37.7%	18.8%	7.8%	0.8%	8.3%	3.6%	3.3%	5		
Strategic Institutions (Comm. Anchor, Public Safety, etc)			30	30	100	133	43	38		60	40	78	3		
Percentage of Total Institutions			5.4%	5.4%	18.1%	24.1%	7.8%	6.9%	0.0%	10.9%	7.2%	14.1%	5		

ATTACHMENT E - PROJECT PLAN (Key Challenges and Applicable Mitigation plans)

Threat/Risk	OpenCape response
Incumbent providers apply political pressure to prevent competition in the region	Proactively demonstrate that incumbents can themselves benefit from the investment; gain political support for the need of middle mile infrastructure in this underserved region.
Pole owners stalls on access to pole rights for fiber in passive-aggressive tactic to stall deployment citing perceived competition	Establish relationships with private partners that can gain access to rights of way and utility resources. Diversify path and technology to overcome a single obstacle; proactively negotiate and build regional, state, and federal political support for the effort.
Access to underground rights or canal crossing stall deployment	Develop redundant paths using available and planned canal crossings; continue working proactively with state agencies to raise awareness and incorporate need into plan; continue on development and deployment of wireless backbone; develop alternatives for underground installation; develop alternatives for crossing the canal.
Inability technically or cost-inadvisable to connect to Internet backbone	Support development of Boston/Providence connection project; continue ongoing awareness and interaction with UMass Dartmouth, MBTA, Northern Crossroads, NEREN, and OSHEAN; continue building relationships with other regional projects; expand outreach to all of southeastern and south coast political base
Lack of funds to complete network construction	Identify and partner on five key areas of potential funding and follow up aggressively in Foundation, Local/Regional, State, Federal, and Private capital options
Lack of funds/vision to leverage for regional good	Incorporate plans for funding local applications into operational goals; proactively partner with regional organizations to create ground-up vision investment; identify foundation or grant sources for specific collaborative applications, i.e. education; plan for fund and personnel to deliver message and mange relationships.
Lack of funds to maintain and sustain network operations	Carefully screen and select operator for ability and intent to execute on network sales; in partnership with operator develop an executable plan for sales and marketing; leverage existing relationships to build foundation client base; demonstrate return to community to establish relationship with key municipal clients; use asset in/credit out approach to connect municipal clients to 'ownership' of network.
Natural disaster "act of god" such as hurricane hits Cape Cod, causing damage and delays	Prepare recovery plans in the event of a natural disaster and in all planning build for survivability and/or quick recovery.

Addressable Market for the Open Cape Transport Network

The embedded worksheets of this doou ment are submitted as Attachment H. Two market studies were conducted on behalf of OpenCape Corporation. These professional market studies provide a detailed viewinto the market share that OpenCape's partner, RCN may capture over time based on detailed study. The Reviewer should read worksheets from far light to left.

Value of Retail Market for 5-County Market of Interest

					Total Ret	ail Communications	Warket					
Communication	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Service	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
Voice	\$495,847,698	\$489,587,548	\$481,500,637	\$473,446,761	\$466,763,882	\$460,712,052	\$455,259,713	\$450,377,237	\$446,036,809	\$442,212,320	\$441,484,029	\$443,839,356
Video	\$227,127,760	\$239,458,008	\$252,398,331	\$266,038,243	\$280,415,585	\$295,287,336	\$299,270,370	\$303,307,424	\$307,399,238	\$311,546,559	\$315,750,146	\$320,010,770
Data	\$193,863,882	\$214,283,393	\$235,795,859	\$253,181,393	\$269,735,644	\$284,664,371	\$300,504,340	\$317,315,304	\$335,161,120	\$350,802,914	\$358,014,734	\$365,489,307
Wireless	\$416,724,161	\$436,127,794	\$456,434,906	\$477,687,563	\$499,929,793	\$508,502,149	\$511,710,746	\$514,939,590	\$518,188,807	\$521,458,527	\$524,748,878	\$528,059,991
Total	\$1,333,563,501	\$1,379,456,743	\$1,426,129,732	\$1,470,353,961	\$1.516.844.903	\$1,549,165,907	\$1,566,745,169	\$1,585,939,555	\$1,606,785,973	\$1,626,020,320	\$1,639,997,787	\$1,657,399,424

Typical Portion of the Telecom Value Chain Committed to Transport as % of Retail Revenue

Communi Service	
Voice	10%
Vide	5%
Data	23%
Wirele	ss 12%

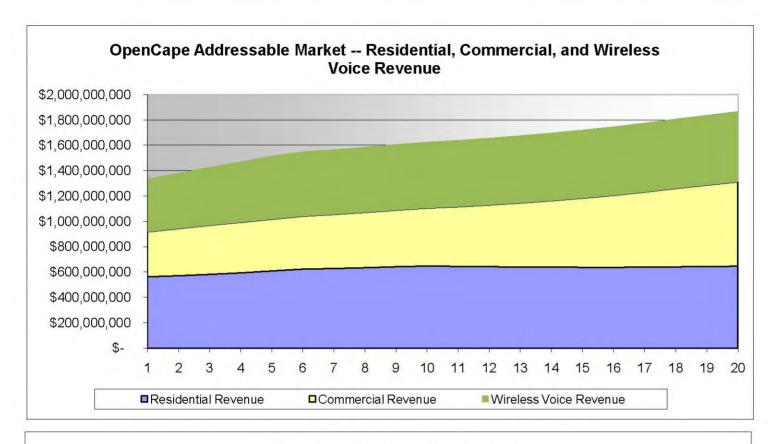
Total Addressable Transport Market for the OpenCape Network

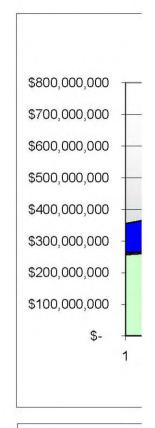
ii Addressable Transport i	Har ket T	or the Openuap	e Network																	
Transport Services	-	Year 1	Year 2		Year 3		Year 4		Year 5		Year 6	Year 7		Year 8		Year 9		Year 10	Year 11	Year 12
Voice	\$	49,584,770	\$ 48,958,	755	\$ 48,150,064	\$	47,344,676	\$	46,676,388	\$	46,071,205	\$ 45,525,971	\$	45,037,724	\$	44,603,681	\$	44,221,232	\$ 44,148,403	\$ 44,383,936
Video	\$	11,356,388	\$ 11,972,	900	\$ 12,619,917	\$	13,301,912	\$	14,020,779	\$	14,764,367	\$ 14,963,519	\$	15,165,371	\$	15,369,962	\$	15,577,328	\$ 15,787,507	\$ 16,000,538
Data	\$	44,588,693	\$ 49,285,	180	\$ 54,233,047	\$	58,231,720	\$	62,039,198	\$	65,472,805	\$ 69,115,998	\$	72,982,520	\$	77,087,058	\$	80,684,670	\$ 82,343,389	\$ 84,082,541
Wireless	\$	50,006,899	\$ 52,335,	335	\$ 54,772,189	\$	57,322,508	\$	59,991,575	\$	61,020,258	\$ 61,405,290	\$	61,792,751	\$	62,182,657	\$	62,575,023	\$ 62,969,865	\$ 63,367,199
Total	1.2	155 536 750	\$ 162,552	171	\$ 169,775,246	*	176 200 816	*	182 727 941	*	187.328.635	\$ 191.010.778	*	194 978 365	*	199 243 357	*	203 058 253	205 249 164	\$ 207 814 214

Marginal or Newtransport business will be the high-potential addressable market for Open Cape

	Year 2	Year 3	Year 4	Year 5		Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
New (on the margin transport each year)	\$ 7,015,421	\$ 7,223,046	\$ 6,425,600	\$ 6,527,124	5	4,600,694	\$ 3,682,143	\$ 3,967,588	\$ 4,264,992	\$ 3,814,896	\$ 2,190,911	\$ 2,565,049
Cu mulative high-potential market	\$ 7,015,421	\$ 14,238,486	\$ 20,664,066	\$ 27,191,191	\$	31,791,885	\$ 35,474,028	\$ 39,441,615	\$ 43,706,607	\$ 47,521,503	\$ 49,712,414	\$ 52,277,464

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OpenCape Addressable Market Communications Revenue by Service

\$2,000,000,000

\$700,000,000

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		2	1	•			1	1	P	10	11	12	- 18	14	16	18	st.	12	4	20
Total Annual Revenue cb; Bervice	20 10	2011	2012	20 13	2014	2016	2018	20 17	2018	20 18	2020	2021	2022	2022	2024	2026	2026	2027	2025	2028
Value Bervise c																				
Residental	\$236,000 ,150	\$226,57 +,162	\$21+,7+6,Z39	\$202,294,671	192,396,524	£182,360,906	\$172,965,431	§ 164 Д49,4Z7	\$155,614,154	\$147 FEE 529	£139,715,789	\$132,Z36,258	\$125,167,500	§112,433,642	\$112,175,56E	§ 109,502,267	§ 109,144,300	£109,206,696	\$ 109,567 D48	§ 109,923,6
Commercial	\$296,740,648	\$263,013,200	\$206,754,28G	\$270,962,001	\$27 4,407,368	\$278,321,112	\$202,294,202	£2206,327,810	\$290,422,666	\$294,579,791	\$301,760,241	\$311,003,466	\$322,980,601	£334,792,894	£348,278,360	£363,120,259	£389,400,046	£387,201,534	\$+16,618,EXX	\$ car ,750,7
Annual Revenue - Valoe	\$496,847,896	\$ 489,507,548	\$ 481,500,637	\$473,446,761	\$ +96,763,882	\$ 490,712,092	\$ 495,259,713	\$490,317,Z3F	4++едзедзе	\$44Z,21Z,3ZD	\$441,4E4,DZ9	\$443,539,396	\$447,750,6Z1	\$453,221,536	£ +50,45+,257	\$ 47 2 (623,127	}===;	£505,40E,501	\$535,135,331	ted list
Adea Beridae c																				
Residental	£221,795,D17	£233,711,736	£246,300,927	£259,962,252	\$273,980,ZE	(200,205,00)	\$252,129,092	₽ 296,024,049	\$259.970.90E	£303,970,450	#30E,DZ3,ZEE	\$312,130,163	£316,291,794	\$320,50E,91Z	\$324,782,258	1335,000,080	£327 (778)500	£322,152,290	£329,2+1,183	\$330,327 A
Commercial	\$5,361,7 k3	\$5,7 +6,272	\$6,097,404	\$6,469,562	\$6,266,347	£7,001,964	£7,141,278	£7,233,376	£7,428,300	£7,576,109	£7,726,258	\$7,550,607	\$8,EE, +15	\$8,197,344	\$8,390,466	\$8,526,811	\$8,761,545	£9,026,143	£9,256,733	\$9,579,5
Annu al Revenu e - Video	\$227,127,360	\$210,450,DE	£252,386,331	₹296,D38,243	\$280,415,585	\$256,227,336	\$256,210,310	\$300,907,424	\$307,356,23E	\$311,546,589	£315,750,146	£320,010,770	\$324,335,23B	£328,706,296	£333,142,712	£334,529,501	\$335,840,445	£337,124,404	(IE519916	\$336,907,2
Cata Beridae C	- 1																			
Residental	£101,170,362	§110,072,499	§119,796,523	£130,419,716	∦142 <i>∏26,</i> 672	\$ 151,8TE,726	£162,29+,613	£173,535,725	\$ 125,587 ,ZZ+	£196,201,191	§ 196,142,260	₽197 DBG,373	\$156,05+,725	≨199,⊞6,514	\$200,00E,945	£201,002,227	\$202,006,57 ÷	£203,022,204	\$20±,0±9,3±1	\$206,DEE,2
Commercial	\$92,803,520	\$104,210,296	£115,000,335	£122,761,627	¥127,708,973	\$132,256,644	\$138,209,727	\$143,779,579	£149,573,096	\$196,601,724	\$161,272,473	\$162,386,534	\$175,182,290	£182,242,136	£120,505,404	\$ 197 ,226,330	\$205,175,D71	£213,443,627	\$217,380,456	\$219,564,2
Annu al Revenu e - Cata	\$ 19G (MG) (MG2	\$214,283,393	\$236,796,289	£253,181,293	\$200,735,644	\$25+,95+,371	1300,504,340	1317,316,304	\$308,161,120	\$260,202,91¢	£358.01+,734	1365,435,307	\$313,Z31 p16	£361,266,660	1339,696,439	(200,229,000	\$ 407,181,546	\$+16,466,E31	\$421,429,797	\$ +Z+,6+Z,4
Witeld on Berviole o																				
All wintiess cus komers	\$+16,7Z+,161	\$ +36,127,79+	\$496,434,506	\$417 (BBT (SBB)	£499,929,79G	\$50E,502,149	\$511,710,7+6	\$514,909,590	\$618,188,EUF	\$521,458,527	\$524,748,878	\$528,099,991	£531,391,997	\$534,7 45,027	£538,119,215	\$541,514,69G	\$544.9031,597	\$548,370,DBD	£961,E30,Z21	£986,312,2
Annual Revenue - Wireless Bervises	\$416,724,161	£436,127,794	£ 496,434,506	1 an 1881 \$43	£499,929,793	\$505,502,149	≨ 511,710,7≠6	\$514,909,590	\$518,188,807	\$521,450,527	\$524,748,878	\$528,D59,991	\$531,291,997	\$534,7 45,DZ7	\$538,119,215	\$541,514,#B3	\$544,931,597	\$548,370,090	£961,830,821	\$555,312,2
One oo Ameual Addre ocab is Market ((noted in gredness oc)	\$1,000,660,601	\$1,079,466,740	\$1,428,128,722	\$1,470,060,FB1	\$1,618,044,800	\$1,648,186,807	\$1,688,746,188	\$1,626,929,666	\$1,404,724,972	\$1,828,820,828	\$1,000,007,707	\$1,867,089,424	¥1,876,716,241	\$1,400,001,440	♦ 0/21,010/24	\$1,744,096,770	\$1,778,40E,0E1;	\$1,000,400,786	\$1,007,906,014	\$1,087,641,0
		2		•	•		7			10	11	12	18	14	16	18	tr.	12	19	20
Tabl Reseaux cb; Regiment	2010	2011	2812	2818	2014	2016	2016	2017	2018	2019	2020	2021	2022	2028	2024	2026	2026	2027	2022	2028
Reddental																				
Volat Serulats	Z39,087,190	Z26,57 +,168	214,746,239	ZIZ 20 4 SE 1	192,356,524	182,390,939	172,965,431	164,049,427	155,61+,15+	147 (532,529	139,715,789	132,236,286	125,167,500	118,488,642	112,175,566	109,502,257	109,144,300	109,206,996	109,997 D48	109,922,6
Video Seruices	221,766,017	233,711,736	246,300,927	299,962,252	273,990,238	288,285,363	252,129,052	296,024,049	259,970,938	303,910,450	302,023,288	312,130,163	316,291,794	320,508,912	324,782,288	326,003,090	327 (178,900	322,158,290	329,241,183	330,327,6
Dala Services	101,170,362	110,072,499	119,796,523	130,419,716	142,026,672	151,202,726	162,294,613	173,536,725	125,527,224	196,201,191	196,142,260	197 (193,373	156,054,725	199,026,514	200,000,945	201,002,227	202,006,57 4	203,022,204	20+,0+9,3+1	205,088,2
Annu al Revenu e - Reciden Ital	\$962,D23,525	\$570,368,402	#800,243,689	1992,202,60E	\$607.530,433	#672,485.D48	1627,389,136	(633),635,231	£6+1,172,316	\$6+6,90+,170	£643,221,337	\$641,459,394	\$630,514,442	₽638,724,D68	\$636,967,201	\$636,507 50S	#63E,Z59,77+	£640,387,131	\$642,257 512	1645,344,5
Commercial																				
Volce Seruices	296,760,548	263,013,380	266,754,266	270,562,091	27 +,407 ,368	278,321,112	202,294,202	296,327,210	250,422,666	294,579,791	301,768,241	311,623,466	322,980,691	334,792,294	348,278,369	363,120,269	379,400,046	397,201,234	+16,618,833	437,750,7
Video Services	5,361,243	5,7+6,272	6,097,404	6,400,002	6,006,347	7,001,064	7,141,272	7,283,376	7,428,000	7,576,109	7,726,000	7 (000),607	B,D37,415	8,197,344	2,363,455	2,526,211	2,761,545	9,000,143	9,296,733	9,579,9
Data Services	92,980,520	104,210,295	115,569,735	122,761,617	127,708,973	122,255,544	138,209,727	143,779,679	149,513,596	199,601,724	161,272,473	162,386,934	175,182,290	182,242,136	129,506,494	197 ,226,830	205,175,071	213,443,627	217,380,496	219,554,2
Annual Revenue - Commercial	£354,815,812	£372,970,547	£388,851,137	£359,783,790	\$ 408,961,978	\$ +18,178,710	\$ +27 (5+5,287	£437,280,764	\$447,4Z4,2851	\$451 JS1 824	\$471,367,572	\$ 467 (SED)(JUSE	\$505,210,356	1525,Z32,314	\$546,225,30E	\$968,87 +,500	£593,336,961	\$619,671,60S	\$643,256,D21	1000,255+,5
	The same	Annual Control	Was a second	and the	W. France	de la constitución	Washing a	A Control	Aug and	Activities.	Access	William T	- American	Vincence .	- Water and a	Washington .		August 1	September 1	310,5
Oroics Annual Addre cost is Market (Including wireless)	\$1,533,665,601	\$1,279,466,742	\$1,428,128,722	\$1,470,262,981	\$1,618,244,802	\$1,648,186,807	\$1,688,746,189	\$1,626,928,666	\$1,808,726,972	\$1,626,020,320	\$1,639,897,727	\$1,667,088,424	\$1,676,716,241	\$1,482,001,448	\$1,721,211,724	\$1,748,288,772	\$1,778,482,021	\$1,000,420,788	\$1,007,806,014	\$1,267,641,2

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7 N. Francisco III -	1	2	3	4	5	6	1	1	9	10	11	12	13	14	15	16	17	18	15	20
Residental Segment	2010	2011	20 12	2013	2014	20 15	2016	20 17	2018	2019	20 20	2021	2622	2023	2024	2025	2026	2027	20 28	2 0 2 5
Estimate of Population In S-CountyOpen Cape Region	873,397	876,275	879,171	382,072	884,983	887,504	29 0,274	293,773	896,723	25 5,62 2	502,651	905,630	308,618	5 11,6 17	514,625	9 17,643	520,672	523,710	929,758	525,816
Estimate of Houselio bis in S-County OpenCape Region	325,010	38 6,28 1	387,556	388,835	390,118	351,405	39 2,697	393,993	395,293	39 6,59 7	397,906	399,219	40 0,53 7	401,258	403,125	404,515	405,350	407,129	408,533	409,38
/OVE SERVICES																				
Access Likes per Household	1.26	1.19	1.13	1.08	1.02	0.97	0.92	0.88	0.83	0.79	0.75	0.71	83.0	0.64	0.61	0.60	0.60	0.60	0.60	0.60
Monthly cost per residential phone seru be i prou is bived with use itical seruices)	\$ 24.48 \$	24.57 \$	24.67 \$	2437 \$	24.87 \$	24.97 \$	25.07 \$	25.17 \$	25.27 \$	25.37 \$	25.37 \$	25.37 \$	25.37 \$	25.37 \$	25.37 \$	25.37 \$	25.37 \$	25.37 \$	25.37 \$	25.31
Long distance expenditure per month	\$ 16.72 \$	16.39 \$	16.D5 \$	1574 \$	15,42 \$	15.11 \$	1681 \$	14.52 \$	14.22 \$	1394 \$	13.66 \$	13.39 \$	13.12 \$	12.86 \$	12.60 \$	12.35 \$	12.10 \$	1200 \$	12.00 \$	12.0
Monthly revenue per Household -Voice Services	\$ 51.75 \$	48.88 \$	45.18 \$	43.63 \$	41.23 \$	38.96 \$	36.83 \$	34.81 \$	3291 \$	31.12 \$	29.36 \$	27.69 \$	26.13 \$	24.65 \$	23.26 \$	22.63 \$	22.48 \$	22.42 \$	22.42 \$	22.43
ADEO SERVICES																				
House in the set ingle absorption to the ose nubes	80%	81%	82%	82%	83%	84%	85%	36%	87 %	278	38%	39%	90%	91%	92%	92%	92%	92%	92%	92
Auerage monthly expenditive per household	\$ 6000 \$	62.40 \$	64.90 \$	67.49 \$	70.19 \$	73 DD \$	7300 \$	73.00 \$	7300 \$	7300 \$	73,00 \$	7300 \$	73.00 \$	73.00 \$	7300 \$	73.00 \$	1300 \$	7300 \$	73.00 \$	730
Revenue per Houselfold -Video Services	\$48	\$60	\$63	\$96	\$68	\$61	\$62	363	\$63	354	\$65	\$66	\$66	356	957	\$67	\$967	\$57	\$67	96
DATA SERIACES																				
Monthly cost to ribasic high-speed data senube (ADSL, Cable Modern)	\$41	\$42	\$43	\$44	\$45	\$45	\$45	\$45	\$45	\$45	\$45	\$45	\$45	\$45	\$45	\$45	\$45	\$45	\$45	56
Percentage of Notice to its sing basic high-speed data se pices in OpenCape region of	47%	SDX	54%	58%	62%	66%	7.1%	76%	81%	85%	35%	35%	85%	35%	85%	35%	86%	85%	88%	85
Monthly cost to remianced data sembes	\$80	361	351	\$62	\$62	\$52	\$62	\$52	\$52	\$62	\$62	\$82	\$62	\$62	\$62	\$52	\$82	\$62	362	\$8
Percentage of Notice to its nising entrance dictal sucs	5%	5%	5%	5%	5%	6%	6%	6%	6%	6%	6%	6%	6%	6%	7%	7%	7%	7%	7%	7
Revenue per Household - Cata Services	\$22	\$24	\$26	\$28	\$30	\$32	\$34	\$37	\$39	\$41	\$41	\$41	\$41	\$41	541	\$41	\$41	\$42	\$42	\$6
Total Monthly Revenue per Residential Household	\$122	\$123	\$125	\$127	\$130	\$133	\$133	\$134	\$136	\$136	\$135	\$134	\$133	\$132	\$132	\$131	\$131	\$131	\$131	\$13
Forbi Annual Revenue per Residential Household	\$1,459.76	\$1,476.54	\$1,496.74	\$1,526.49	\$1,559.96	\$1,591,92	\$1,599.10	\$1,509.55	\$1,623,32	\$1,632.11	\$1,619,33	\$1,607.00	\$1,597.68	\$1,588.66	\$1,580.76	\$1,574,40	\$1,573.46	\$1,573.59	\$1,574.46	\$1.575.2
Out Attitude for Residence includence	\$1,400.10	ψ1,81 O.04	ψ1,420.1 ¢	41 1000 100	41,000,00	41,001.02	- \$1,000.tu	фірало	- PI NEO NE	\$1,002.11	4101000	gryan no	41,01100	φιμουνο	φι ₂ /00.10	91,714.60	φιρισ.40	\$100 OUB	41,014.40	41,010 %
	1	2	3	4	5	q	1	8	3	10	11	12	13	14	15	16	17	18	15	20
All Commercial Segments	2010	2011	20 12	2013	2014	20 15	2016	20 17	2018	2019	20 20	2021	2022	20 23	2024	20 25	2026	2027	2023	2 0 2 9
/ORE SERVICES															111					
Number of Access Lives per employee	0.6	D.S	0.5	0.5	O.S	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	D.4	0.4	0.4	D.4	0.4	0.4	0
Average cost per access the per month (hot ue dical services)	\$49	\$60	\$51	\$62	\$63	\$54	\$66	\$56	\$57	\$58	\$57	\$66	\$53	\$52	\$50	\$4.9	\$47	\$46	\$44	\$4
Long distance minutes of use per access the permonth per the	545	578	613	649	688	730	773	820	869	921	976	1036	1097	1163	1233	1306	1386	1 468	1556	16 4
Costperminate of use bag distance serute	\$0.08	\$0.08	\$0.07	\$0.07	\$0.07	2006	\$0.06	\$0.06	\$0.05	\$0.05	\$0.05	\$0.05	\$0.05	\$0.05	\$0.05	\$0.05	\$0.05	\$0.06	\$0.05	20.0
Monthly Revenue per Employee - Voice Services	\$71	\$71	\$71	\$72	\$72	\$72	\$72	\$73	\$73	\$3	\$7.4	\$76	\$78	\$80	\$83	\$85	\$88	\$91	\$95	\$9
ACE O SERVICES																				
Percentage of Businesses Using Video Seruices	25%	26%	26%	27%	27%	28%	28%	29%	29%	30%	30%	31%	32%	32%	33%	36%	34%	35%	36%	361
Movinty Cable Rate	\$69	371	\$73	\$75	\$77	\$76	\$76	\$75	\$74	\$73	373	\$72	371	\$7.1	\$70	\$59	\$969	\$59	359	\$6
Auerage sembe ro femployees per Besisess	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	\$ 1.68 \$			171 \$	1.80 \$	1.81 \$	183 \$	1.85 \$		189 \$	191 \$	1.92 \$	194 \$	1.96 \$	198 \$	2.00 \$	201 \$	208 \$		2.16
DATA SERMCES																		2700 1		-
Percentage of Businesses using High Speed Data Serubes	85%	91%	97%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	991
Monthly cost to relating enubes per emptyee	\$30	\$31	\$32	\$33	\$34	\$36	\$36	\$37	\$38	\$39	\$40	\$42	\$43	54.4	\$45	\$47	\$48	\$50	\$50	\$6
Monthly Revenue per Employee - Cata Services	\$26	\$28	\$91	\$32	\$33	\$34	\$36	\$37	\$36	\$79	\$40	\$41	\$42	See	\$45	\$46	\$48	\$49	350	\$8
Total Monthly Revenue per Employee	\$98	\$101	\$104	\$106	\$107	\$108	\$110	\$111	\$113	\$114	\$116	\$119	\$122	\$126	\$129	\$133	\$138	\$143	\$146	\$16
Total Annual Revenue per Employee	\$1,171.32	\$1,206.99	\$1245.92	\$1,268.27	\$1,28 4.60	\$1,300.49	\$1,316.76	\$1,333,43	\$1,350.52	\$1,368.02	\$1,394,75	\$1,429.32	\$1,467.18	\$1,508.43	\$1,953,19	\$1,601.57	\$1,657.90	\$1,710.21	\$1,757.84	\$1,804.2
Minole na Segment	1 2010	2 2011	3 20 12	4 2013	5 2014	g 20 15	7 2016	20 17	9 2018	10 2019	11 2020	12 2021	13 2022	14 2023	15 2024	16 2025	17. 2026	18 2027	19 2025	20 2029
square in an great the same of	2910	2011	20 12	2910	2014	29 10	2410	20 11	2010	2910	2029	2021	evee	2020	2724	24.57	2029	ever	2920	2023
Wheless Subscriptions per Resident	0.80	084	0.87	0.90	0.94	0.96	0.95	0.96	0.96	0.95	0.96	0.96	0.95	0.96	0.96	0.95	0.96	0.95	0.96	0.96
Monthly Wheels of Researce per Subscription	549	\$60	\$60	\$80	380	\$50	950	\$51	\$51	\$51	\$61	\$81	351	351	\$62	\$52	\$82	\$62	\$52	\$8
	\$49	\$cn	\$on	\$cu	\$ca	\$00	\$00	301	401	301	301	\$01	301	301	402	302	402	402	\$0.2	
Monthly Revenue per Resident - Wheless Services	\$40	\$41	\$43	\$45	\$47	\$48	\$48	\$48	\$48	\$48	\$48	\$49	\$49	\$49	\$49	\$49	\$49	\$49	\$60	\$8

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			Residential Ac	cess Lines				
	Barnstable County	Dukes County	Nantucket County	60% Fractional Portion of Plymouth County	Fractional Component of Bristol County	5-County Addressable Market	Massachusetts	USA
Population 2008	221,049	15,527	11,215	295,240	327,494	870,524	6,497,967	304,059,724
Households 2008	97,003	6,572	3,795	133,828	142,546	383,744	2,499,782	113,918,509
Median Household Income 2007	\$ 59,365	\$ 57,553	\$ 66,782	\$ 70,606	\$ 54,635	\$ 61,571	\$ 62,383	\$ 50,740
Economic Index (relative to US)	117.0%	113.4%	131.6%	139.2%	107.7%	121.3%	122.9%	100%
Economic Index (relative to MA avg)	95.2%	92.3%	107.1%	113.2%	87.6%	98.7%		
Estimate of Total Access Lines	119,625	8,146	6,828	190,029	163,109	488,606	3,695,288	163,170,000
Estimate of Residential Phone Penetration	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	90.0%	82.0%
Estimate of Second lines	25.7%	25.0%	29.0%	30.6%	23.7%	26.7%	27.0%	22.0%
Non-farm businesses	8,654	1,026	885	7,395	8,074	26,034	175,463	7,601,160
Non-farm employment	75,544	5,011	4,121	95,026	123,218	302,920	3,044,080	119,917,165

FCC tree	nds in telep	ohony Au	gust 2	2008		
	To	otal		Res		Bus
Local Telephony						
US Access Lines	16:	3,170,000		96,766,337	Г	66,403,66
Massachusetts Access Lines	3	3,695,288		2,318,405	Г	1,376,88
AVG. Cost per Line/Mo.			\$	24.80	\$	48.80
TOLL Telephony						
\$ of Toll per year (includes access)	***************************************		\$16	000,000,000	\$	48,000,000,000
Toll MOU annually (intra and inter)	######		108	600,000,000		434,400,000,000
AVG. Monthly MOU / line		277		94		54
Toll \$ per year per line	\$	392	\$	165	\$	723
Toll \$ per MOU	\$	0.118	\$	0.13	\$	0.080
Wireless Telephony						
US Wireless Subscribers		000,000,0				
Massachusetts Wireless Subscribers		5,289,432				
Average Monthly MOU	-	714				
Average Monthly \$ per subscriber	\$	49.49				
High Speed Data						
US High Speed Data Services		,921,000				
Massachusetts High-Speed Lines	2	,660,501				
Average Monthly cost		\$35.00				

Total National Employment	
2007 quarterly average non-farm civilian labor force	119,917,165
Commercial access lines per employee	0.5537

US	ILEC	CLEC	Total
Residential	84,704,810	12,061,526	96,766,337
Commercial	49,747,270	16,656,394	66,403,663
Total	134,452,080	28,717,920	163,170,000

FC	C ARMIS REPORT 43-0	1	
Massachusetts	Business	Residential	
	37.3%	62.7%	
3,695,288	1,376,883	2,318,405	

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Source information: National Statistics for High-Speed Data Access from FCC Trends in Telephony

County	Population	s of Residential High- Total Housing Units	Total	Estimated Households w/ Cable Modem Service ACCESS	Estimated Households w/ DSL Service
Barnstable County	221,049	155,555	97,003	27,403	18,268
Dukes County	15,527	16,260	6,572	1,856	1,238
Nantucket County	11,215	10,683	3,795	1,072	715
60% Fractional Portion of Plymouth County	295,240	115,570	133,828	37,805	25,204
60% Fractional Portion of Bristol County	327,494	135,020	142,546	40,268	26,845

5-County Market of Interest	870,524	433,087	383.744	108,404	72,270
o ocurrey market of meeroot	010,021	100,001	000,111	100, 10 1	12,210

US total High-Speed Data Circuits	100,921,647
US total High-Speed Data Circuits Residential	61,102,810
Percent of high-speed Data Circuits for Residential Service	60.5%
US total Household High-speed data Adoption	50.8%
Urban Adoption of high-speed	53.8%
Rural Adoption of high-speed	38.8%
Massachusetts High Speed Data Circuits	2,660,501
MA High-Speed Data Res Subs (using same factor for US split of residential vs. C&I)	1,610,795
MA Households	2,499,782
Estimated State-wide adoption of Broadband in Massachusetts	64.4%
Estimate adoption of Broadband for 5-county market of interest based upon economic index	47.1%
Source Trends in Telephony August 08, Section 2	

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	В	arnstable			Nai	ntucket	60% Fract		60% Frac Portion of			County ressable		
People QuickFacts		County	Dukes	County	С	ounty	Plymouth (County	Coun	ty	М	larket	Massachusetts	US
Population, 2008 estimate		221,049		15,527		11,215		295,240	3	27,494		870,524	6,497,967	304,059,724
Population, percent change, April 1, 2000 to July 1, 2008		-0.50%		3.60%		17.80%		4.10%		2.10%		2.3%	2.30%	8%
CAGR (calculated by Blue Ridge) OLD X (1+CAGR)*N = NEW												0.330%		
Population estimates base (April 1) 2000		222,232		14,987		9,520	:	283,693	32	20,807		851,239	6,349,113	281,424,602
Persons under 5 years old, percent, 2007		4.30%		5.10%		7.20%		6.20%		5.90%		5.6%	5.80%	7%
Persons under 18 years old, percent, 2007		17.90%		18.90%		20.70%		24.50%		2.90%		22.0%	22.20%	25%
Persons 65 years old and over, percent, 2007		23.60%		14.90%		10.40%		12.40%		3.60%		15.8%	13.30%	13%
Female persons, percent, 2007		52.70%		51.20%		49.00%		51.10%		1.80%		51.8%	51.50%	51%
)Afrika navasna navasnt 2007 (a)		95.10%		92.10%		87.60%		89.10%		12.90%		92.13%	86.50%	80%
White persons, percent, 2007 (a) Black persons, percent, 2007 (a)		2.20%		2.70%		10.00%		8.20%	3	3.70%		4.86%	6.90%	13%
American Indian and Alaska Native persons, percent, 2007 (a)		0.60%		2.70%	7	10.0070		0.30%		0.40%		0.45%	0.30%	1%
Asian persons, percent, 2007 (a)		1.00%		0.90%	_	1.20%		1.30%		1.80%		1.40%	4.90%	4%
Native Hawaiian and Other Pacific Islander, percent, 2007 (a)	Z	1.0070		0.10%		0.10%		0.10%		0.10%		0.07%	0.10%	0%
Persons reporting two or more races, percent, 2007	_	1.10%		1.90%		1.10%		1.20%		1.30%		1.22%	1.30%	2%
Persons of Hispanic or Latino origin, percent, 2007 (b)		1.70%		1.70%		5.30%		2.80%		4.80%		3.28%	8.20%	15%
White persons not Hispanic, percent, 2007		93.50%		90.70%		82.70%		86.90%	8	88.80%		89.36%	79.70%	66%
Living in same house in 1995 and 2000, pct 5 yrs old & over		57.60%		61.20%		54.30%		63.50%	6	32.40%		61.40%	58.50%	54%
Foreign born persons, percent, 2000		4.90%		6.30%		8.00%		6.30%		1.70%		7.99%	12.20%	11%
Language other than English spoken at home, pct age 5+, 2000		6.80%		8.20%		10.50%		10.10%		21.10%		13.36%	18.70%	18%
High school graduates, percent of persons age 25+, 2000		91.80%		90.40%		91.60%		87.60%		3.20%		83.36%	84.80%	80%
Bachelor's degree or higher, pct of persons age 25+, 2000		33.60%		38.40%		38.40%		27.80%		9.90%		26.64%	33.20%	24%
Persons with a disability, age 5+, 2000		42,178		2,528		1,783		47,371	5	9,813		153,673	1,084,746	49,746,248
Mean travel time to work (minutes), workers age 16+, 2000		24.1		16.5		9.5		32.3		25.6		27.1	27	26
11		455.555		40.000		40.000		45 570	4.0			400.007	0.700.400	407.004.004
Housing units, 2007		155,555		16,260		10,683		115,570		35,020		433,087	2,722,190	127,901,934
Homeownership rate, 2000 Housing units in multi-unit structures, percent, 2000		77.80% 13.00%		71.30% 6.30%		63.10% 9.40%		75.60% 22.90%		1.60% 14.20%		71.6% 25.0%	61.70% 42.70%	66% 26%
Median value of owner-occupied housing units, 2000		\$178,800	ď	304,000		\$577,500		79,200		1,500	Φ	184,931	\$185,700	\$119,600
Median value of owner-occupied flousing driks, 2000		\$170,000	Φ	304,000		\$377,300	Φ1	18,200	Φι	71,300	Φ	104,831	\$100,700	Φ113,000
Households, 2008 Blue Ridge Estimate		97,003		6.572		3.795		133.828	14	2,546		383,744	2,499,782	113.918.509
Persons per household, 2000		2.28		2.3		2.37		2.74		2.54		2.54	2.51	2.59
Median household income, 2007		\$59,365		\$57,553		\$66,782	\$	70,606	\$	54,635	\$	61,571	\$62,383	\$50,740
Per capita money income, 1999		\$25,318		\$26,472		\$31,314		24.789		20,978	\$	23,604	\$25,952	\$21,587
Persons below poverty, percent, 2007		6.60%		6.80%		5.30%		6.50%		9.30%		7.6%	10.00%	13%
Business QuickFacts	Bar	nstable Cour	Duke:		Nantu		Plymouth Co		Bristol Cou		5-Cou			USA
Private nonfarm establishments, 2006		8,654		1,026		885		7,395		8,074		26,034	175,463	7,601,160
Private nonfarm employment, 2006		75,544		5,011		4,121		95,026		23,218		302,920	3,044,080	119,917,165
Private nonfarm employment, percent change 2000-2006		4.70%		-0.10%		7.90%		7.20%		1.10%		4.0%	-1.40%	5%
Employment CAGR (Blue Ridge Calculation)		04.405		0.000		0.000		00.500		0.400		1.0%	450.000	00 700 555
Nonemployer establishments, 2006		24,105		3,329		2,088		20,568		8,128		68,218	453,998	20,768,555
Total number of firms, 2002 Black-owned firms, percent, 2002		31,064 1.00%	г	4,229	F	2,679		25,428 2.30%		1.20%		86,955	563,539 2.30%	22,974,655 5%
American Indian and Alaska Native owned firms, percent, 2002		0.40%			F		S		s	1.2070			0.40%	1%
Asian-owned firms, percent, 2002		1.10%			F		5	1.10%	9	1.60%			3.20%	5%
Native Hawaiian and Other Pacific Islander owned firms, percent	í F	1.1070	F		F		F	1.1070	F	1.0070			S 3.2070	0%
Hispanic-owned firms, percent, 2002		1.50%			F			0.90%	ų.	1.10%			2.80%	7%
Women-owned firms, percent, 2002		26.10%		34.30%	•	15.70%		28.20%		7.90%			28.70%	28%
Manufacturers shipments, 2002 (\$1000)	\$	411,126	NA		NA		\$ 2,1	34,108	\$ 7,39	8,678		9,943,912	77,996,586	3,916,136,712
Wholesale trade sales, 2002 (\$1000)	D		D		\$	29,274	\$ 5,5	91,985	\$ 14,39	4,030	2	0,015,289	127,129,789	4,634,755,112
Retail sales, 2002 (\$1000)	\$	3,393,996	\$	288,858	\$	264,487				2,497	11	6,836,584	73,903,837	3,056,421,997
Retail sales per capita, 2002	\$	14,911	\$	18,736	\$	26,773				3,519		85,364	\$11,525	\$10,615
Accommodation and foodservices sales, 2002 (\$1000)	\$	757,207	\$	87,295	\$	85,791				27,872		2,309,907	11,789,582	449,498,718
Building permits, 2007	\$	818	\$	186	\$	139	\$	1,322	\$	1,147		3,612	15,358	1,398,414
Federal spending, 2007 (\$1000)	\$	2,180,424	\$	103,383	\$	50,346	\$ 2,8	94,007	\$ 4,17	8,888	!	9,407,048	61,027,983	2,536,629,405
0	п.		Dules	0	h I = = 2		Diamental O		District				Managara	1104
Geography QuickFacts	Bar	nstable Cour	⊔ukes	County 104	Mantu		Plymouth Co	ounty 661	Bristol Cou			1 70 4	Massachusetts	
Land area, 2000 (square miles)		396 561		104		48 198		715		556 961.7		1,764 711	7,840 810	3,537,438 80
Persons per square mile, 2000 FIPS Code		1 00		144		198		23		961.7		711	810 25	80
Metropolitan or Micropolitan Statistical Area	Bar	ı nstable Towr	None	,	None		Boston-Cam		Providence		=dford	Fall River		
	Jai	LOSGIC TOWN	.40116		AOUG		200ton-Call	∞nage-¢	. rovidence	.4044 🛭	s arond-	. unitarel,		

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The following major assumptions were used in developing the evaluation of the Addressable Market and the Financial Proforma Statements for the OpenCape Project:

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In defining the addressable market for Open Cape, we assumed that telecommunications statistics published in the FCC Trends in Telephone Service Report, and the FCC ARMIS reports, which are published on a state-wide basis, can be factored down to the OpenCape footprint based upon population and remain valid. For example, Massachusetts has a population of 6.5 million people, and 5.3 million wireless subscribers. This yields a wireless service for every 1.23 persons. The OpenCape footprint has a total population of 870,000. We are forecasting the wireless subscribers in the addressable market of 707,000. This methodology was applied to all communications services. It is important to note that the population cited her is larger than is indicated as OpenCape's service area. Because OpenCape must build fiber to further connection points in Providence it will also have the opportunity to generate revenues in those areas over time.

In calculating the addressable market we assumed there is a correlation between household income and adoption rates for broadband and other communications services. The relative wealth of the OpenCape region is greater than the national average. The weighted-average median-household-income for the OpenCape region is \$61,651 per year. The national average is \$50,740. We believe this creates an economic index of 121.3% for the OpenCape region relative to the US, and using the same methodology, and economic index of 98.7% relative to the Commonwealth of Massachusetts. So, if the Massachusetts state-wide adoption of broadband is 64.4%, and rural adoption of broadband at the national level is 38.8%, we used the economic index of the OpenCape region to forecast the addressable-market adoption of broadband at 47.1%

OpenCape's business strategy is to address the "transport" portion of the telecommunications value chain, a so-called carriers' carrier strategy, and provide retail commercial services. In determining the addressable market, we used industry-wide statistics for calculating the size of the transport market. For example, the retail wireless market in the OpenCape region is approximately \$400 Million annually, the industry-wide average cost of transport for wireless networks is about 12% of retail sales. This yielded an addressable market of \$50 Million. However, we did not use \$50 Million as the potential market as we believe that once a circuit is provisioned, it is difficult to capture that portion of the market. Rather, we calculated the size of the high-potential addressable market — the new transport business that is provisioned in support of organic growth — in the case of wireless about \$2 Million in the first year. This same methodology was applied to all segments of the transport market. We calculated market share as a percentage of high-potential-market, only.

Market segment growth rates. We have modeled the addressable market using the following assumptions. Wireline telephony will continue to decline at a rate of 5% per year and will stabilize at 60% penetration (40% of homes will have supplanted wireleline telephony with wireless voice). Broadband adoption will slow to 7% annual growth rate until 95% penetration is achieved, at which point it will stabilize. Subscription video service is mature and static, however, prices will continue to increase at 4% annual growth rate for the planning horizon. Wireless voice growth rate in subscribership and Minute of Use (MOU) will slow to a 4% annual growth rate and stabilize at 98% market saturation.

The initial plan for OpenCape is to work through a private partner for the sales, marketing, provisioning of services, and customer care — including billing. OpenCape used a disciplined RFI process to select the private partner. The market share, customer retention, and overall success of OpenCape in the marketplace is directly linked to the quality of the efforts of that partner. Public-private partnerships can present unique challenges. This plan assumes the operator will be a good operator and deliver on the vigilance of effort and quality of customer care that they committed to in the RFP process.

Market share estimates were determined from the experiences of others who launched similar networks, in similarly under-served markets. Market share for transport was calculated as a percent of the high-potential addressable market, as described in assumption 3. The market share capture for retail commercial services was calculated as a percent of total market as retail customers are motivated to change service provider for cost savings.

The precise category breakdown of the capital plant in service is not known at this time. The depreciation schedule we used for the financial proforma is based upon an automacolife of 12 years. The actual depreciation schedule by class of according to the financial proforma is based upon an automacolife of 12 years. The actual depreciation schedule by class of according to the financial proforma is based upon an automacolife of 12 years. The actual depreciation schedule by class of according to the financial proforma is based upon an automacolife of 12 years.

FORM **C0-512** (REV 12-04)

CERTIFICATION REGARDING LOBBYING LOWER TIER COVERED TRANSACTIONS

U.S. DEPARTMENT OF COMMERCE

Applicants should review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, "New Restrictions on Lobbying."

LOBBYING As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or toan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

Statement for Loan Guarantees and Loan Insurance The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

NAME OF APPLICANT	AWARD NUMBER AND/OR PROJECT NAME
Daviel Gallagher	Ofercape
PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE	
Daniel Gallagher,	
SIGNATURE	DATE 8/16/09

The following major assumptions were used in developing the evaluation of the Addressable Market and the Financial Proforma Statements for the OpenCape Project:

In defining the addressable market for Open Cape, we assumed that telecommunications statistics published in the FCC Trends in Telephone Service Report, and the FCC ARMIS reports, which are published on a state-wide basis, can be factored down to the OpenCape footprint based upon population and remain valid. For example, Massachusetts has a population of 6.5 million people, and 5.3 million wireless subscribers. This yields a wireless service for every 1.23 persons. The OpenCape footprint has a total population of 870,000. We are forecasting the wireless subscribers in the addressable market of 707,000. This methodology was applied to all communications services. It is important to note that the population cited her is larger than is indicated as OpenCape's service area. Because OpenCape must build fiber to further connection points in Providence it will also have the opportunity to generate revenues in those areas over time.

In calculating the addressable market we assumed there is a correlation between household income and adoption rates for broadband and other communications services. The relative wealth of the OpenCape region is greater than the national average. The weighted-average median-household-income for the OpenCape region is \$61,651 per year. The national average is \$50,740. We believe this creates an economic index of 121.3% for the OpenCape region relative to the US, and using the same methodology, and economic index of 98.7% relative to the Commonwealth of Massachusetts. So, if the Massachusetts state-wide adoption of broadband is 64.4%, and rural adoption of broadband at the national level is 38.8%, we used the economic index of the OpenCape region to forecast the addressable-market adoption of broadband at 47.1%

OpenCape's business strategy is to address the "transport" portion of the telecommunications value chain, a so-called carriers' carrier strategy, and provide retail commercial services. In determining the addressable market, we used industry-wide statistics for calculating the size of the transport market. For example, the retail wireless market in the OpenCape region is approximately \$400 Million annually, the industry-wide average cost of transport for wireless networks is about 12% of retail sales. This yielded an addressable market of \$50 Million. However, we did not use \$50 Million as the potential market as we believe that once a circuit is provisioned, it is difficult to capture that portion of the market. Rather, we calculated the size of the high-potential addressable market -- the new transport business that is provisioned in support of organic growth -- in the case of wireless about \$2 Million in the first year. This same methodology was applied to all segments of the transport market. We calculated market share as a percentage of high-potential-market, only.

Market segment growth rates. We have modeled the addressable market using the following assumptions. Wireline telephony will continue to decline at a rate of 5% per year and will stabilize at 60% penetration (40% of homes will have supplanted wireleline telephony with wireless voice). Broadband adoption will slow to 7% annual growth rate until 95% penetration is achieved, at which point it will stabilize. Subscription video service is mature and static, however, prices will continue to increase at 4% annual growth rate for the planning horizon. Wireless voice growth rate in subscribership and Minute of Use (MOU) will slow to a 4% annual growth rate and stabilize at 98% market saturation. The initial plan for OpenCape is to work through a private partner for the sales, marketing, provisioning of services, and customer care -- including billing. OpenCape used a disciplined RFI process to select the private partner. The market share, customer retention, and overall success of OpenCape in the marketplace is directly linked to the quality of the efforts of that partner. Public-private partnerships can present unique challenges. This plan assumes the operator will be a good operator and deliver on the vigilance of effort

and quality of customer care that they committed to in the RFP process.

Market share estimates were determined from the experiences of others who launched similar networks, in similarly under-served markets. Market share for transport was calculated as a percent of the high-potential addressable market, as described in assumption 3. The market share capture for retail commercial services was calculated as a percent of total market as retail customers are motivated to change service provider for cost savings.

	Year	1	2	3	4	5	6	7	8	9	10	11	12
	2010 2011	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Market share													
Commercial Retail		0.0%	0.1%	0.4%	1.0%	2.0%	4.0%	6.0%	8.0%	10.0%	11.0%	12.0%	13%
Commercial Transp	ort	0.0%	0.5%	1.0%	3.0%	5.0%	7.0%	9.0%	10.0%	11.0%	12.0%	13.0%	14%

The precise category breakdown of the capital plant in service is not known at this time. The depreciation schedule we used for the financial proforma is based upon an average life of 12 years. The actual depreciation schedule by class of asset is as follows:

Depreciation Schedules	Months	Years	
Aerial Fiber	180	15	
Underground Fiber	240	20	
Electronics	84	7	
Shelters and Generators	120	10	

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It is important to note that OpenCape, with the assistance of Robert Picchi, Certified Management Consultant of the Blue Ridge Advisory Services Group, developed twelve year projections within a very detailed financial analysis. This analysis reveals a very favorable outlook for OpenCape. We would like to have provided this analysis in the first round, but were constrained by the requirements for grant submissions to only 5 years of projections. We look forward to providing our complete analysis.

OpenCape Supplement 2 Table of Contents

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Massachusetts **BROADBAND** Institute

Connecting the Commonwealth

August 12, 2009

Daniel Gallagher President and Chairman OpenCape Corporation P.O. Box 762 West Barnstable, MA 02668-1599

Dear Mr. Gallagher:

Thank you for submitting a written request to the Massachusetts Broadband Institute ("MBI") to provide \$5,000,000 in matching funds from the Massachusetts Broadband Incentive Fund ("Fund") for the OpenCape Corporation's application to the National Telecommunications Information Administration's Broadband Technology Opportunities Program ("BTOP"). It is our understanding from your presentations to the MBI Board of Directors that the OpenCape Corporation ("OpenCape") is seeking \$32 million in grant funds through BTOP to support the development of a next-generation middle-mile infrastructure to support the needs of Cape Cod and southeastern Massachusetts.

The MBI Board of Directors voted on August 12, 2009, to reserve \$5,000,000 from the Fund for a cash match for the OpenCape's BTOP application. By reserving \$5,000,000, the MBI Board of Directors has indicated its support for the conceptual framework and objectives that OpenCape seeks to advance through its BTOP Application. This action is consistent with the long-term capital plan previously approved by the MBI Board of Directors.

The MBI Board of Directors has made the reservation of funds subject to satisfaction of the following conditions: (1) OpenCape must receive a BTOP grant award from the National Telecommunications and Information Administration; (2) each dollar of matching funds provided by the MBI must leverage four dollars in federal funds awarded to OpenCape; (3) any subsequent commitment of matching funds to OpenCape shall be subject to the review and approval by the MBI Board of Directors of a detailed proposal to be submitted by OpenCape; and (4) the use and expenditure of matching funds by OpenCape must comply with all legal requirements and conditions applicable to the expenditure of state bond proceeds deposited in the Fund. Upon satisfaction of these conditions, the MBI stands ready to request that the Executive Office for Administration and Finance execute a binding written commitment to the MBI to deposit monies in the Fund in an amount sufficient to provide the match to OpenCape.

We look forward to seeing OpenCape pursue its plan and objectives in a manner that is consistent with, and supportive of, the broader goals of the Commonwealth of Massachusetts to provide ubiquitous broadband to its citizens, a robust

telecommunications infrastructure to support economic development, and low cost, high-speed Internet service to anchor institutions.

Sincerely,

Sharon Eisner Gillett

Director, Massachusetts Broadband Institute

cc: C. Stanley McGee, Assistant Secretary for Policy and Planning, Massachusetts Executive Office of Housing and Economic Development Mitchell Adams, Executive Director, Massachusetts Technology Collaborative



August 13, 2009

Dan Gallagher Open Cape Corporation PO Box 762 West Barnstable, MA 02668-1599

Dear Dan:

Thank you for selecting RCN Metro Optical Networks as your OpenCape Partner to provide and operate a fiber optic cable backbone to Cape Cod and the Islands. We appreciate you selecting us and having this opportunity to serve OpenCape.

Subject to successful BTOP funding and the negotiation of the necessary mutually agreeable contract agreement, RCN Metro will build and operate a fiber optic cable network on Cape Cod and the Islands with connections to the Brockton, MA Verizon Central Office and RCN Metro's Central Office in Providence, RI.

RCN Metro will contribute \$2,000,000 plus in-kind services to OpenCape towards the matching funds required by BTOP.

Sincerely,

Felipe Alvarez

President

RCN Metro Optical Networks

PARTNERSHIP AGREEMENT BETWEEN BARNSTABLE COUNTY AND OPENCAPE CORPORATION

This agreement by and between Barnstable County, a political subdivision of the Commonwealth of Massachusetts, having its principal place of business at Superior Court House, Route 6A, Barnstable, Massachusetts, and OpenCape Corporation, a not-for-profit enterprise having its principal place of business at P.O. Box 762 West Barnstable, MA 02668.

WITNESSETH

WHEREAS, Barnstable County wishes to assist in the development of a regional collocation and data center as part of the OpenCape high speed data network, and,

WHEREAS, OpenCape Corporation wishes to partner with Barnstable County in its endeavor to develop such a collocation and data center.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, Barnstable County and OpenCape Corporation do hereby agree as follows.

1. MUTUAL TASKS. Barnstable County and OpenCape Corporation agree to work to create a regional collocation and data center as part of a broader regional telecommunications system proposed by the OpenCape Corporation for the purposes of delivering aggregation and other services to both commercial and public entities, and creating the technical capacity for the delivery of regional umbrella service models and other collaborative activities by government entities of the region. Both parties agree that no financial commitment beyond specific grant funding provided for the purposes of the "OpenCape" project is required or assumed under this Agreement.

- 2. COUNTY TASKS. Barnstable County agrees to provide the ground floor and one half of the first floor of the County Public safety building for a period of twenty-five (25) years at the Barnstable County Complex within the Public Safety building for the purpose of constructing and operating a regional collocation and data center, and associated technical, equipment, security, fiber termination, and administrative space.
- 3. OPENCAPE Corporation OpenCape Corporation agrees to renovate the Public Safety building to provide space for both OpenCape needs and the needs of Barnstable County. Any costs of whatever nature, including those costs which are necessary to make the leased premises in a condition satisfactory for the uses proposed by Open Cape Corporation shall be the sole responsibility of Open Cape Corporation. Barnstable County shall not pay any part or portion of any costs relating to the renovation of the building.
- 4. INSURANCE. Open Cape Corporation shall maintain insurance on the leased premises in amounts set forth as follows: the Lessee agrees to maintain comprehensive general liability coverage in companies qualified to do business in the Commonwealth of Massachusetts in amounts not less than one million dollars with respect to injury to any one person and not less than one million with respect to property damage. The policy shall include the interest of Barnstable County as an additional insured and a certificate of insurance with thirty (30) days notice of any material change shall be provided to Barnstable County.
- 5. INDEMNIFICATION. Open Cape Corporation agrees to assume all liability of any nature arising from the use of the premises and covenants to indemnify Barnstable County from any and all claims, of whatever nature, and any and all damages, of whatever nature, including the cost of defense of such claims by Barnstable County.
- 6. ASSIGNMENT. The OpenCape Corporation may further license and lease space within that portion of the building identified as the collocation and data center to its assigns for the purpose of equiping, operating, maintaining, securing, and administering the collocation and data center.

7. ENTIRE AGREEMENT The Parties agree that no amendment or modification of this Agreement shall be valid or binding unless in writing and executed by both Parties. No provision of this Agreement shall be altered, waived, amended or extended except in writing by both Parties. The paragraph headings contained herein are for convenience only and shall in no way enlarge or limit the scope or meaning of the provision of this Agreement.

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Executed	this	11	day	of_	HOMENT	 2009.
		3.3			/	

Barnstable County

Open Cape Corporation

By: Coura Dunussconer

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Congress of the United States

Washington, DC 20510

August 19, 2009

Mr. Daniel Gallagher OpenCape Corporation P.O. Box762 West Barnstable, Massachusetts 02668

Dear Mr. Gallagher,

We are pleased to endorse and support the efforts of OpenCape Corporation as it seeks funding under the Broadband Technology Opportunity Program (BTOP) to bring a next-generation broadband infrastructure to Cape Cod, the Islands, and Southeastern Massachusetts. This critical infrastructure is essential to the economic prosperity of this underserved region, and it will aid municipalities and school districts in finding better and more efficient ways to provide services to the citizens of the region.

The Southeast Massachusetts region lacks the robust telecommunications infrastructure needed to fully participate in the 21st Century economy. In addition, this region is vulnerable to a hurricane and must have redundant and reliable telecommunications systems that can prevent loss of economic assets in a hurricane and aid in rapid recovery after a hurricane has occurred.

The inclusion of \$7.2 billion for broadband in the American Recovery and Reinvestment Act of 2009 was intended to address the needs of regions such as Southeastern Massachusetts. Over the past three years, the region has coalesced around the OpenCape concept and invested its resources to analyze the issues surrounding broadband opportunity, capacity, and affordability in the region.

It has been our pleasure to work with OpenCape to address this need and we offer our support in your effort to obtain funding for this vital, innovative, and well prepared project.

Please don't hesitate to contact Nick Christiansen of Senator Kerry's office at 202-224-2742, John Dutton of Senator Kennedy's office at 202-224-4543, or Pilar Falo of Barney Frank's office at 202-225-5931 if you have any questions.

Zana

John F. Kerry U.S. Senator

Sincerely,

Edward M. Kennedy

U.S. Senator

Barney Frank

U.S. Representative

BILL DELAHUNT
TENTH DISTRICT, MASSACHUSETTS

2454 Rayburn House Office Building Washington, DC 20515 (202) 225-3111 www.house.gov/delahunt

> SOUTH SHORE 1-800-794-9911

1250 HANCOCK STREET SUITE 802 N QUINCY, MA 02169

CAPE COD & ISLANDS 1-800-870-2626 146 Main Street Hyannis, MA 02601

Congress of the United States House of Representatives

Washington, **DC** 20515-2110

August 12, 2009

COMMITTEE ON FOREIGN AFFAIRS

SUBCOMMITTEES ON: INTERNATIONAL ORGANIZATIONS, HUMAN RIGHTS AND OVERSIGHT CHAIRMAN

> Europe Vice Chairman

COMMITTEE ON THE JUDICIARY

SUBCOMMITTEES ON:
THE CONSTITUTION, CIVIL RIGHTS, AND CIVIL LIBERTIES
IMMIGRATION, CITIZENSHIP, REFUGEES, BORDER
SECURITY, AND INTERNATIONAL LAW
COMMERCIAL AND ADMINISTRATIVE LAW
VICE CHAIRMAN

CO-CHAIR: CONGRESSIONAL COAST GUARD CAUCUS OLDER AMERICANS CAUCUS

Dr. Bernadette McGuire-Rivera
Associate Administrator
National Telecommunications and Information Administration
Herbert C. Hoover Building (HCHB)
U.S. Department of Commerce / NTIA
1401 Constitution Avenue, N.W.
Washington, D.C. 20230

Dear Dr. McGuire-Rivera:

I am writing to lend my full support for the Broadband Technology Opportunity Program (BTOP) grant application of OpenCape Corporation. OpenCape seeks funding to bring a next-generation broadband infrastructure to Southeastern Massachusetts including the islands of Nantucket and Martha's Vineyard. This critical infrastructure is essential to the economic prosperity of this underserved region, and it will aid municipalities and school districts in finding better and more efficient ways to provide services to the citizens of the region.

The Southeast Massachusetts region lacks the robust telecommunications infrastructure needed to fully participate in the 21st Century economy. Also, as coastal communities, our region is vulnerable to hurricanes and other severe ocean storms. Having redundant and reliable telecommunications systems that can prevent loss of economic assets and aid in rapid recovery after such occurrences is vital to the safety and wellbeing of the region.

These communities have worked in a collaborative effort around the OpenCape concept and have invested their resources over the past three years to analyze broadband opportunity, capacity, and affordability in the region. This grant application supports a vital, innovative, and extremely well prepared project.

Thank you for giving this application your full consideration. Please don't hesitate to contact Chris Adams on my staff at 508-771-0666 if you have any questions.

Sincerely,

Bill Delahunt



The Commonwealth of Massachusetts

House of Representatives

State House, Boston 02133-1054

July 30, 2009

Daniel Gallagher, President OpenCape Corporation P.O. Box762 West Barnstable, MA 02668

Dear Mr. Gallagher,

We are writing in support of OpenCape Corporation as it seeks funding under the Broadband Technology Opportunity Program (BTOP) to bring a next-generation broadband infrastructure to Cape Cod, the Islands, and Southeastern Massachusetts. This critical infrastructure is essential to the economic prosperity of this underserved region.

The Southeast Massachusetts region lacks the robust telecommunications infrastructure needed to fully participate in the 21st Century economy. In addition, this region is vulnerable to a hurricane and must have redundant and reliable telecommunications systems that can prevent loss of economic assets in a hurricane, and aid in rapid recovery after a hurricane has occurred.

The delegation was highly supportive of the Broadband Bill of 2008 that was introduced by Governor Deval Patrick to address the needs of unserved and underserved regions in Massachusetts through the creation of the Massachusetts Broadband Institute (MBI) and the creation of the \$40 million Incentive Fund. We support fully the use of those funds for the purposes of obtaining federal grant dollars available in the American Recovery and Reinvestment Act of 2009.

Please use this letter of support in your efforts to obtain funding for this vital, innovative, and extremely well prepared project.

Sincerely,

SARAH K. PEAKE

State Representative

4th Barnstable District

CLEON HATURNER

State Representative 1st Barnstable District MATTHEW C. PATRICK

State Representative

3rd Barnstable District

State Representative

5th Barnstable District

PATRICIA A. HADDAD

State Representative 5th Bristol District

DEMETRIUS J. ATSALIS

State Representative 2nd Barnstable District

SUSAN WILLIAMS GIFFORD

State Representative 2nd Plymouth

TIMOTHY MADDEN State Representative

Barnstable, Dukes & Nantucket

ROBERT A. O'LEARY

State Senator Cape & Islands



August 10, 2009

Mr. Daniel Gallagher OpenCape Corporation Post Office Box 762 West Barnstable, MA

Dear Dan:

On behalf of the NSTAR team I would like to thank you for the informative and productive discussion we had today among NSTAR, OpenCape, and RCN Metro regarding areas of common interest. At this meeting you provided additional information since our first meeting in April and subsequent correspondence in June and July.

The OpenCape project and NSTAR's objectives in potential smart grid applications appear to be focused on the same geographic and demographic areas in Southeastern Massachusetts, which deserves further examination and analysis for potential collaboration. In particular, the OpenCape NTIA Broadband Technology Opportunity Program \$40 million grant application and NSTAR's Department of Energy smart grid grant request may complement each other to some degree and thereby potentially produce a greater impact of federal stimulus funds through our coordinated action in the region.

OpenCape clearly is an innovative approach to creating high capacity fiber optic capabilities that will serve economic development and public safety.

NSTAR staff will examine further the information you provided today and will respond in the near term regarding further action we might take together.

Sincerely,

Amin R. Jessa

Director, Distribution Engineering



BARNSTABLE COUNTY REGIONAL EMERGENCY PLANNING COMMITTEE

SUPERIOR COURT HOUSE POST OFFICE BOX 427 BARNSTABLE, MA 02630

Phone: (508) 375-6618 FAX: (508) 362-2603 Email: bcrepc@bamstablecounty.org

July 20, 2009

Mr. Daniel Gallagher, President OpenCape Corporation P. O. Box 762 West Barnstable, MA 02668

RE: Support for OpenCape Corporation's Cape Cod Broad Band Initiative

Dear Mr. Gallagher:

On behalf of the Barnstable County Regional Emergency Planning Committee (BCREPC) I am very pleased to fully endorse and support the efforts of OpenCape Corporation as it seeks funding under the Broadband Technology Opportunity Program (BTOP) to bring a next-generation broadband infrastructure to Cape Cod. Your efforts are consistent with, and supportive of, the efforts of BCREPC to build public safety telecommunications capacity throughout Cape Cod and the Southeastern Massachusetts region by building a reliable and redundant backbone communications system.

Our organization requires greater mobile communication capacity, redundant connections, a regional public safety wide area network, and connectivity to statewide public safety resources. We are deficient in all of these areas and particularly exposed due to the region's vulnerability to a hurricane and our limited geographic accessibility.

BCREPC is a multidiscipline committee from public safety and support agencies that assists the communities in the region with "All Hazard" emergency planning. Our committee would see expanded broadband infrastructure assist and expand public safety in many different ways. Potential projects would include a wireless network for police for further utilization the Criminal Justice Information System (CJIS), redundancy for the 800 MHz public safety radio system, wireless internet capabilities for EMS and Fire Department response, wireless internet capabilities at the regional emergency shelters and for support of Intelligent Transportation Solutions (ITS) as a part of the Cape Cod Traffic Plan. These and other projects using this technology would greatly enhance our service to the public.

The extensive communication you have had with our organization and others in the public safety arena has enabled all of us to focus more clearly to develop collaborative solutions to our regional challenges. OpenCape stands as the fundamental backbone of all of our other initiatives in this area. We look forward to working with you to implement these essential solutions in our region.

Should you have any questions or need any additional information, please feel free to contact me at (508) 375-6618.

Sincerely

Chief George Baker Mashpee Fire Department Chair



CAPE COD REGIONAL LAW ENFORCEMENT COUNCIL, INC.

685 Route 134, South Dennis, MA 02660 Telephone (508) 760-6262, Fax (508) 760-2210 Chief Michael J. Whalen, Secretary /Treasurer

July 1, 2009

OpenCape Corporation Attn: Dan Gallagher P.O. Box762 West Barnstable, MA

Dear Dan,

On behalf of the Cape Cod Regional Law Enforcement Council I am very pleased to fully endorse and support the efforts of OpenCape Corporation as it seeks funding under the Broadband Technology Opportunity Program (BTOP) to bring a next-generation broadband infrastructure to Cape Cod. Your efforts are consistent with, and supportive of, the efforts of all Cape Cod and the Islands Police Departments to build public safety telecommunications capacity throughout Cape Cod and the Southeastern Massachusetts Region 5 by building a reliable and redundant backbone communications system.

The members of the Cape Cod Regional Law Enforcement Council require greater mobile communication capacity, redundant connections, a regional public safety wide area network, and connectivity to statewide public safety resources. We are deficient in all of these areas and particularly exposed due to the region's constant vulnerability to high wind storms and the real possibility for hurricanes.

The Cape is part of Homeland Security Region 5. We need access to Building a statewide network that would allow public safety to communicate its needs with off Cape Police and Fire Departments. Dependable access and rapid response from CJIS provides for the safety of nearly 500 Cape Cod Police Officers and the people we serve. The heavy use of our 800Mhz system, particularly during an emergency supports the need for 800Mhz trunk redundancy. A mobile network for Harbor Video Monitoring, and video monitoring of our more troublesome street intersections would be a tremendous assistance to all police departments in this difficult economic time. Police Officers would spend less time observing certain intersections and devote more time to community policing.

The extensive communication you have had with our organization and our partners in the public safety arena has enabled all of us to focus more clearly to develop collaborative solutions to our regional challenges. OpenCape stands as the fundamental backbone of all of our other initiatives in this area. We look forward to working with you to implement these essential solutions in our region.

Sincerely,

Chief Michael J. Almonte President CCRLEC



Barnstable County Fire Chiefs' Association, Inc. 95 High School Road, Ext. Hyannis, MA 02601 (508) 775-1300



OpenCape Corporation Attn: Dan Gallagher P.O. Box762 West Barnstable, MA

July 22, 2009

Dear Dan,

On behalf of the Barnstable County Fire Chiefs' Association I am very pleased to fully endorse and support the efforts of OpenCape Corporation as it seeks funding under the Broadband Technology Opportunity Program (BTOP) to bring a next-generation broadband infrastructure to Cape Cod. Your efforts are consistent with, and supportive of, the efforts of the Barnstable County Fire Chiefs' Association to build public safety telecommunications capacity throughout Cape Cod and the Southeastern Massachusetts region by building a reliable and redundant backbone communications system.

Our organization requires greater mobile communication capacity, redundant connections, a regional public safety wide area network, and connectivity to statewide public safety resources. We are deficient in all of these areas and particularly exposed due to the region's vulnerability to a hurricane.

The Cape's Fire Departments need a statewide network that would allow us to communicate with off Cape departments. The Barnstable County Fire Chiefs' Association needs a mobile network for its GPS for vehicles, so that we know where vehicle are in an emergency. Also, the heavy use of our 800 MHz system, particularly during an emergency supports the need for an 800 MHz trunk system.

The extensive communication you have had with our organization and others in the public safety arena has enabled all of us to focus more clearly to develop collaborative solutions to our regional challenges. OpenCape stands as the fundamental backbone of all of our other initiatives in this area. We look forward to working with you to implement these essential solutions in our region.

Sincerely,

Chief George Russell President BCFCA



Robert L. Whritenour, Town Manager Town of Falmouth, 59 Town Hall Square, Falmouth MA 02540 rwhritenour@falmouthmass.us 508-495-7320 Office

To:

Dan Gallagher

dgallagher@capecod.edu
Cape Cod Community College

2240 Iyannough Rd., West Barnstable, MA 02668

Date:

July 22, 2009

Re:

The OpenCape Corporation NTIA Broadband Application

The Town of Falmouth supports the efforts of OpenCape and is extremely excited about their application to the National Telecommunications and Information Agency (NTIA) under its Broadband Technology Opportunity Program (BTOP) of the American Recovery and Reinvestment Act (ARRA) 2009. We feel that extending fiber optic routes on Cape Cod is one of the most essential pieces to the economic future of Cape Cod as well as providing connectivity for libraries, schools, public safety buildings, and for emergency response.

Falmouth is ready and prepared to fully participate in this project. The Town of Falmouth is 44 square miles with high technology businesses, research institutions, harbors and seaports, five CLAMs Libraries, a large hospital complex, two Evacuation Centers (EVAC), an Emergency Operations Center (EOC), eight school buildings, full Police and Fire Stations and many town buildings. The Town of Falmouth has a technical IT Staff supporting a limited wireless network, and we have needed a better broadband network for years, but not able to fund such an effort. There is also a crucial need for high speed broadband for the Falmouth Economic Development and Industrial Corporation (EDIC) at Falmouth Technology Park in order to attract more high technology industries.

For the past ten years Falmouth has included Networking Infrastructure as a separate line item in our Capital Improvement Plan and will continue to do so that we will be prepared to connect to the broadband in your initiative. Falmouth also has experience sharing and managing a network infrastructure with Woods Hole Oceanographic Institution. Please find attached our building priority table and let us know if you need any more information.



Nauset Public Schools

78 Eldredge Park Way, Orleans, Massachusetts 02653 Phone: 508-255-8800 • Fax: 508-240-2351• http://nausetschools.org

> Dr. Richard J. Hoffmann Superintendent of Schools

Gail M. Briere Assistant Superintendent

Dr. Ann M. Caretti
Director of Student Services

Hans Baumhauer Business Manager

Kathleen Schrock
Director of Technology

July 31, 2009

OpenCape Corporation Attn: Dan Gallagher P.O. Box762 West Barnstable, MA

Dear Dan:

On behalf of the Nauset School Committees (Brewster, Eastham, Orleans, Wellfleet and Nauset Regional), I am very pleased to fully endorse and support the efforts of OpenCape Corporation as it seeks funding under the Broadband Technology Opportunity Program (BTOP) to bring a next-generation broadband infrastructure to Cape Cod. Your efforts are consistent with, and supportive of, the efforts of our towns to improve access to and utilization of digital resources to enhance services to our citizens.

Our school committees are eager to participate more fully in collaborative activities within our community and to find areas of common interest for regional services. We lack the robust telecommunications infrastructure to pursue these activities and would like to participate with OpenCape in developing them within the region.

The OpenCape proposal clearly goes to the needs of the region and our schools. Municipal governments are looking for opportunities to regionalize common services to gain efficiency and improve services. A regional umbrella services model for all of Cape Cod and the Islands can only be achieved if the underpinning technology is in place. The construction of a regional middle mile network that includes a wide area network (WAN) to link all of the towns and school districts across the region is essential in that effort.

Linking the municipal, school and library WANs to a collocation/data center where service needs for Internet bandwidth and other services can be aggregated will create the opportunity for higher speeds and lower costs. The funding by your grant of a core virtual machine (VM) and storage area network (SAN) within the collocation/data center will permit towns within the region the opportunity to collaborate on common geographic information systems (GIS), assessor data systems, and other applications that are difficult and costly for small towns to create and maintain.

The extensive communication you have had with our town administrator, selectmen, and information technology staff has enabled all of us to focus more clearly to develop collaborative solutions to our regional challenges. OpenCape stands as the fundamental backbone of all of our other initiatives in this area. We look forward to working with you to implement these essential solutions in our region.

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Richard J. Hoffmann, Ed. D.

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August 14, 2009

OpenCape Corporation Attn: Dan Gallagher P.O. Box762 West Barnstable, MA

Dear Dan,

On behalf of the leadership of the major Healthcare providers in the Cape Cod / Southeastern Massachusetts region, we are very pleased to fully endorse and support the efforts of OpenCape Corporation as it seeks funding under the Broadband Technology Opportunity Program (BTOP) to bring a next-generation broadband infrastructure to Cape Cod and Southeastern Massachusetts. Your efforts are consistent with, and supportive of, the efforts of local / regional Healthcare Providers to build telecommunications capacity throughout Cape Cod and the Southeastern Massachusetts, by building a reliable and redundant backbone communications system which will enable new, and enhance existing, critical Healthcare services in our region.

Enhanced broadband access will broaden and enhance the quality of care, and help to reduce the costs of healthcare services overall; and will specifically enable or enhance:

- ♦ Provider access to complete patient medical records across the continuum of care
- ♦ Interoperability of healthcare systems and applications requiring robust data exchange
- ♦ Enhanced Emergency Response by connecting EMS, Police, Fire and other first responders to a myriad of connected healthcare services and providers
- Enhanced Clinical Research by connecting underserved healthcare providers, and patients
- ♦ Enhanced Disaster Preparedness & Response by enhancing primary and redundant communication networks connecting healthcare providers and facilities; and designated disaster sites and responders
- ♦ Telemedicine including telesurgery, teleradiology, remote consultations and remote monitoring of patients with chronic medical conditions
- Consumer healthcare including lifestyle medicine and personal health records
- Health Education including consumer and clinician education. CMEs and research
- ♦ Reliability of Healthcare Information Systems by providing a regional, disaster-tolerant datacenter

The Healthcare providers of the region require greater and more cost effective communication capacity, redundant communications connections, enhanced public safety communications capabilities, and enhanced connectivity to local regional and national Healthcare resources. Our region is well behind the nation in all of these areas; and is particularly vulnerable to a disaster in the form of a hurricane.

We look forward to working with you to implement these essential services in our region.

Sincerely,

Cape Cod Healthcare
Jordan Hospital
CareGroup / Beth Israel Deaconness Medical Center
Partners Healthcare System, Inc. (PHS)
Masachusetts General Hospital (PHS)
Martha's Vineyard Hospital (PHS)

Nantucket Cottage Hospital (PHS)

Outer Cape Health Services
Partners Continuing Care (PHS)
Rehabilitation Hospital of the Cape and Islands (PHS)
Massachusetts Health Data Consortium

Sheryl Crowley, CIO Dennis Fonseca, CIO John Halamka, CIO John Glaser, CIO James Noga, CIO Keith Jennings, Manager, IS Keith Jennings, Manager, IS

Cara Babachicos, CIO John Campbell, CIO Richard Salluzzo, MD, CEO Peter Holden, CEO

Timothy Walsh, CEO

Sylvia Sather Getman, CEO

Roberta Berrien, M.D., CEO David Storto, CEO Carol Sim, CEO Ray Campbell, Executive Director



July 21, 2009

Connect Member Institutions

OpenCape Corporation P.O. Box762 West Barnstable, MA 02668-1599

Bridgewater State College

Dr. Dana Mohler-Faria

Dear Dan,

President

The CONNECT College Presidents are pleased to fully endorse and support the efforts of OpenCape Corporation as it seeks funding under the Broadband Technology Opportunity Program (BTOP) to bring a next-generation broadband infrastructure to Cape Cod, the Islands, and Southeastern Massachusetts. This critical infrastructure is essential to the economic prosperity of this underserved region, and it will aid municipalities, school districts, and institutions of higher education in finding better and more efficient ways to provide services to the citizens of the region.

Bristol Community College Dr. John Sbrega President

The inclusion of \$7.2 billion for broadband in the American Recovery and Reinvestment Act of 2009 was intended to address the needs of regions such as Southeastern Massachusetts. It is extremely fortunate that the region has coalesced around the OpenCape concept and invested its resources over the past three years to analyze the issues surrounding broadband opportunity, capacity, and affordability in the region.

Cape Cod Community College

The CONNECT Colleges have individual institutional needs for greater and greater symmetrical bandwidth that OpenCape will address. OpenCape will also create the opportunity for greater collaboration among our member colleges through shared resources and services.

Dr. Kathleen Schatzberg President

The CONNECT Colleges have worked with OpenCape to ensure that public higher education needs are addressed in its network design and we are extremely proud to have provided support to the effort through both in-kind contributions and time. The participation of Vice Chancellor of Information Technology and Libraries, Bob Green, of UMass Dartmouth as a board member of OpenCape, and the leadership of Cape Cod Community College's CIO, Dan Gallagher, as President and Chairman of OpenCape Corporation, is expressive of our level of commitment and our recognition of the vital need for this project.

Massachusetts Maritime Academy

Massasoit Community College

Massachusetts Dartmouth Dr. Jean MacCormack

We fully endorse your efforts and offer our continuing support.

RADM Richard Gurnon President

Dr. Charles Wall

President

University of

Chancellor

Contact Information
Dr. Jane M. Souza
Executive Director
66 Hooper Street
Burnell Hall, Room 119
Bridgewater, MA 02325
Jane.Souza@connectsemass.org
Telephone: 508.531.1437
Fax: 508.531.5437

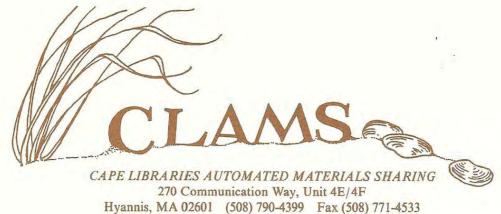
www.connectsemass.org

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Sincerely.

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July 31, 2009

RE: OpenCape Corporation NTIA BTOP Grant Proposal

The non-profit 501(c)(3) OpenCape Corporation is applying for a Broadband Technology Opportunities Program (BTOP) grant for the purpose of creating a fiber optic network on Cape Cod. The Cape Libraries Automated Materials Sharing (CLAMS) library consortium supports this application.

CLAMS, a non-profit 501(c)(3) organization, is a consortium of 35 libraries on Cape Cod and the Islands of Martha's Vineyard and Nantucket. As a consortium, these libraries share resources through a computerized system with terminals located in each library. Citizens in member towns can borrow books and other materials from all public member libraries. This improves services by providing immediate information on the location of 1.5 million items including books, periodicals and audiovisual resources, and savings through cooperative development of library collections. The libraries act as public computing centers, providing internet access to residents and visitors, and they provide valuable information resources to aid in disaster recovery. The population in the service area soars in the summer (estimated to be approximately triple the year-round population), and both year-round residents and summer visitors rely on the libraries for their internet and information needs (including wireless access even when the libraries are closed; people sit outside or in their cars accessing the internet on their laptop computers).

The physical network that currently connects each of the libraries within the CLAMS consortium consists of two types. A frame relay system connects 21 of the libraries over 384Kbps connections, and 14 libraries connect to the network using a Virtual Private Network (VPN) over a Comcast cable modem. The CLAMS office, as the aggregation point, further provides access to the Internet over two T1 lines provided by Verizon. Within the CLAMS office a Packeteer 7500 is used to shape traffic, a CISCO 3800 router is used for routing and firewalling, and several Dell and Sun servers are used for data services. Each of the 35 libraries has a separate internet connection, in most cases a Comcast cable modem, for public use computers.

The OpenCape backhaul fiber optic network will pass close by almost all of the member libraries on Cape Cod. Connecting the libraries via OpenCape's planned fiber optic network will create a more robust Wide Area Network for the libraries with the bandwidth needed for data transmissions for both the staff workstations and public access computers. It would also provide more consistent service to the member libraries than the current hybrid approach of frame relay and cable. The frame relay network is becoming obsolete, and cannot provide bandwidth required by today's internet needs in a cost-effective manner. Fiber optic connections have the potential to accommodate more public use computers with greater internet bandwidth capacity at a lower cost than the current cable and frame relay connections, resulting in both improved public service and cost savings for the libraries.

CLAMS may consider moving its existing production servers to the OpenCape collocation/data center to improve all aspects of service delivery to its clients. CLAMS would then contract with competing Internet service providers (ISP) at the aggregation point for the amount of bandwidth it needs to service the libraries. The COMCAST cable modems in each library can remain as a backup service to the primary CLAMS ISP service for both CLAMS terminals and public use computers. Libraries are increasingly viewed as a location for public gathering to obtain information in a crisis. A redundant Internet connection will help to support that mission.

Attached is a listing of the library locations in the CLAMS network. We expect that all of the member libraries will benefit from OpenCape Corporation's proposed fiber optic network.

Sincerely,

Gayle Simundza Executive Director

Days Sun

CLAMS (Cape Libraries Automated Materials Sharing)



CLAMS Central Location: 270 Communication Way, Unit 4E; Hyannis, MA 02601

CLAMS Participating Libraries

July 2009

Barnstable Cape Cod Community College Library-LRC

2240 Iyanough Rd.; West Barnstable, MA 02668

Barnstable Centerville Public Library

585 Main St.; Centerville, MA 02632

Barnstable Cotuit Library

871 Main St.; Cotuit, MA 02635

Barnstable Hyannis Public Library

401 Main St.; Hyannis, MA 02601

Barnstable Marstons Mills Public Library

2160 Main St.; Marstons Mills, MA 02648

Barnstable Osterville Free Library

43 Wianno Ave.; Osterville, MA 02655

Barnstable Sturgis Library

3090 Main St.; Barnstable, MA 02630

Barnstable Whelden Memorial Library

Meetinghouse Way, Rt. 149; West Barnstable, MA 02668

Bourne Jonathan Bourne Public Library

19 Sandwich Rd.; Bourne, MA 02532

Brewster Ladies Library

1822 Main St.; Brewster, MA 02631

Chatham Eldredge Public Library

564 Main St.; Chatham, MA 02633

Dennis Public Library

5 Hall St.; Dennisport, MA 02639

Dennis Dennis Memorial Library

1020 Old Bass River Rd.; Dennis, MA 02638

Dennis South Dennis Library

389 Main St.; South Dennis, MA 02660

Dennis West Dennis Library

260 Main St.; West Dennis, MA 02670

Dennis Jacob Sears Library

23 Center St.; East Dennis, MA 02641

Eastham Public Library

190 Samoset Rd.; Eastham, MA 02642

Edgartown Public Library

58 N. Water St.; Edgartown, MA 02539

Falmouth Public Library

123 Katharine Lee Bates Rd.; Falmouth, MA 02540

Branches: East Falmouth Branch: 310 E. Falmouth Highway; East Falmouth, MA 02536

North Falmouth Branch: Chester St.; North Falmouth, MA 02556

Falmouth West Falmouth Library

575 West Falmouth Hwy.; West Falmouth, MA 02574

Falmouth Woods Hole Library

581 Woods Hole Rd.; Woods Hole, MA 02543

Harwich Brooks Free Library

739 Main St.; Harwich, MA 02645

Mashpee Public Library

100 Nathan Ellis Hwy. (Rt. 151); Mashpee, MA 02649

Nantucket Nantucket Atheneum

1 India St.; Nantucket, MA 02554

Oak Bluffs Oak Bluffs Public Library

Corner of Circuit & Penacook Ave.; Oak Bluffs, MA 02557

Orleans Snow Library

67 Main St.; Orleans, MA 02653

Provincetown Provincetown Public Library

330 Commercial St.; Provincetown, MA 02657

Tisbury Vineyard Haven Public Library

Main St. (Corner of Greenwood Ave); Vineyard Haven, MA 02568

Truro Public Library

5 Library Lane (off Standish Way); North Truro, MA 02652

Wellfleet Public Library

55 West Main St., Wellfleet, MA 02667

55 West Main St., Well Yarmouth Yarmouth Libraries:

South Yarmouth, 312 Main St.; South Yarmouth, MA 02664

Branch: West Yarmouth: 391 Main St.; West Yarmouth, MA 02673

Yarmouth Yarmouth Port Library

297 Main St.; Yarmouthport, MA 02675



WOODS HOLE OCEANOGRAPHIC INSTITUTION

Dr. Susan K. Avery, President and Director

February 9, 2009

The Honorable William D. Delahunt U.S. House of Representatives 2454 Rayburn House Office Building Washington, D.C. 20515

Dear Congressman Delahunt:

I am writing to express the support of the Woods Hole Oceanographic Institution for the efforts of OpenCape to create a regional broadband network infrastructure on Cape Cod and parts of Southeastern Massachusetts and encourage your support for including digital broadband infrastructure in the stimulus package. Our region of the state has long been underserved by the traditional communications carriers, and as a result, the area suffers from a shortage of the data networking resources necessary to support scientific research, education and economic development of the region. In mild storms, the Cape is extremely vulnerable to lengthy communications outages, so there is a clear need for a survivable, emergency communications network that is independent of the existing communications infrastructure. OpenCape is a grassroots effort specifically formed to provide the infrastructure necessary to fix these problems. It has the endorsement of every town and school district on the Cape, and the support of major employers and higher educational institutions in the area. WHOI has participated in the project since its inception and provided the equipment and expertise required to create the first operational link in the OpenCape network (from Woods Hole to UMass Dartmouth).

The Institution's data networking needs are, perhaps, the most extensive of any organization on the Cape. We need to have the highest bandwidth connections available and physically independent and redundant connections to the Internet in order to maintain our competitiveness within a highly connected scientific field. Our autonomous instruments are continuously gathering information around the globe and must be able to communicate with us. Our scientific data and databases are used by people globally and cannot be unavailable for extended period of times. The new Ocean Observatories Initiative will dramatically increase the amount of data that are being continuously collected and will place stringent data availability requirements upon WHOI. The lack of connectivity options impacts the research efforts and growth of WHOI as well as our neighbors at the Marine Biological Laboratory, the United States Geological Survey Field Station, and the National Marine Fisheries Service. The OpenCape alternative wireless and fiber optic networks are precisely what we need to resolve this problem.

I want to thank you for all of your efforts on behalf of the Woods Hole, Cape Cod, and Southeastern Massachusetts communities.

Sincerely,

Susan K. Avery

Swan K. awere



Leading Cape Cod businesses since 1921

July 17, 2009

OpenCape Corporation Attn: Dan Gallagher P.O. Box 762 West Barnstable, MA

Dear Dan,

On behalf of the Cape Cod Chamber of Commerce, representing over 1350 businesses in the region, I am very pleased to fully endorse and support the efforts of OpenCape Corporation as it seeks funding under the Broadband Technology Opportunity Program (BTOP) to bring a next-generation broadband infrastructure to Cape Cod. Your efforts are consistent with, and supportive of, the efforts of our organization to improve services to businesses, diversify our economy, and create economic opportunity in the region.

Our region lacks the robust telecommunications infrastructure needed to fully participate in the 21st Century economy. In addition, this region is vulnerable to a hurricane and must have redundant and reliable systems that can prevent loss of economic assets in a hurricane and aid in rapid recovery after a hurricane has occurred.

Our existing businesses require high speed symmetrical broadband service at reasonable rates to compete on a level playing field with other regions of the country. Our highly educated and innovative population can more readily participate in the creation of companies that are clean and low impact if a robust, redundant and reasonably priced broadband service is available to them.

Improved broadband will make greater diversification of the Cape's economy possible by enhancing the climate for a broader variety of businesses. Without improved broadband services there is a real concern that the Cape's efforts to diversify its economy, expand selected industrial clusters—healthcare, technology, marine science, education—and create a greater number of higher paying jobs will be jeopardized.

The extensive communication you have had with businesses and stakeholder organizations on Cape Cod has enabled all of us to focus more clearly to develop collaborative solutions to our regional challenges. OpenCape is a critical enabling technology that is essential to the future economic sustainability of Cape Cod. We look forward to working with you to implement these essential solutions in our region.

Sincerely,

Wendy K. Northgross, CCE

Chief Executive Officer



Direct Line: 508-790-5400

Fax: 508-771-8079

August 13, 2009 107808-1

Administrator Rural Utilities Service U. S. Department of Agriculture Washington, D. C. 20250-1500

Assistant Secretary
National Telecommunications and Information Administration
U.S. Department of Commerce
Washington, D.C. 20230

Re: OpenCape Corporation

Dear Sir:

We are counsel for OpenCape Corporation, a Massachusetts non-profit corporation (the "Applicant"). In such capacity, we acted as counsel to the Applicant in connection with its ability to apply to the Broadband Technology Opportunities Program (the "Program") and in the review of the grant agreement, as referenced in the Notice of Funds Availability (the "Grant Agreement").

We are of the opinion that:

- (a) the Applicant is a duly organized and existing Massachusetts non-profit corporation under the laws of the Commonwealth of Massachusetts.
- (b) the Applicant has corporate power: (1) to execute and deliver the Grant Agreement; and (2) to perform all acts required to be done by it under said agreement.
- (c) no legal proceedings have been instituted or are pending against the Applicant, the outcome of which would adversely affect the Applicant's ability to perform the duties under the Grant Agreement, and there are no judgments against the Applicant which would adversely affect the Applicant's ability to perform the duties under the Grant Agreement.



(d) The Applicant has the power to own its property and carry out its business as now conducted.

Our opinion is subject to the following assumptions and qualifications:

- 1. In rendering this opinion, we have assumed that the Program and all officers executing and delivering documents on its behalf have all necessary power and authority to fund the grant, that all such transactions have been duly authorized by all necessary corporate action by the Program and that all such officers have been duly elected to hold the offices they purport to hold.
- 2. In rendering this opinion, we have relied upon the facts and statements contained in the organizational documents of the Applicant. We are aware of no facts or material information which would lead to a contrary opinion.
- We have assumed the genuineness of all signatures, the legal capacity of natural persons, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as certified or photo static copies.
- 4. We have made such examination of Massachusetts law as we have deemed relevant for the purposes of this opinion, but we have not made an independent review of the laws of any other state or jurisdiction. We express no opinion as to whether the laws of any particular jurisdiction (other than Massachusetts) apply or the extent that the laws of any jurisdiction other than that identified above are applicable to the subject matter hereof.
- 5. This opinion is limited to the matters expressly stated herein, and no opinion is implied or may be inferred beyond the matters expressly stated herein.
- 6. The opinions expressed herein are based upon certain dated certificates and organizational documents. We are not aware and have been informed that no act or event has occurred between the dates thereof and the date hereof that would in any way affect any of the matters opined upon or that would in any manner alter those certificates.
- 7. No opinion is expressed as to whether any provisions of the Grant Agreement is specifically enforceable in equity, whether such enforceability is considered in a proceeding in equity or at law.

This opinion is rendered solely for the benefit of the Program in connection with the Grant Agreement. This opinion may not be relied upon by any other party or entity without our prior written consent.



This opinion is rendered solely for the benefit of the Program in connection with the Grant Agreement. This opinion may not be relied upon by any other party or entity without our prior written consent.

Sincerely

Nutter McClennen & Fish LLP

1850266.1

Supplement 1 OpenCape Middle Mile Service Area Details

The OpenCape network proposed funded service area consists of the entirety of Barnstable, Dukes and Nantucket counties plus the towns of Plymouth, Carver, Kingston, Plympton, Middleboro, Bridgewater, Halifax, East Bridgewater, Brockton, Wareham, Marion, and Mattapoisett in Plymouth County.

The OpenCape service area does not include the communities of Bristol County along what is commonly referred to as the South Coast of Massachusetts. However, OpenCape must run fiber through this area to establish its connection with Providence, RI. The communities of the South Coast will be able to exploit the OpenCape fiber to their own advantage in developing a comprehensive solution for this region similar to that fashioned for Cape Cod and the Islands. The University of Massachusetts Dartmouth is leading an effort to do just that. In light of the economic challenges faced by this region, particularly in New Bedford and Fall River, with unemployment in excess of 14%, OpenCape could prove a vital underpinning resource for economic development in the region.

ANCHOR INSTITUTIONS

At least 70 anchor institutions will be connected to the OpenCape network via laterals as part of the build out as indicated in the following table:

Community Evacuation Shelters (12)	<u>Libraries (30)</u>						
Upper Cape Regional Technical School	Cape Cod Community College Library						
Falmouth High School	Centerville Public Library						
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Mashpee High School	Chatham/Eldredge Public Library						
Oak Ridge School	Cotuit Public Library						
Barnstable High School	Dennis Public Library						
Cape Cod Regional Technical School	Falmouth Public Library						
Chatham High School	Falmouth East Public Library						
Nauset Regional Middle School	Hyannis Public Library						
Nauset Regional High School	Jonathan Bourne Public Library						
Wellfleet Elementary School	Marstons Mills Public Library						
Truro Central School	Mashpee Public Library						
Veterans Memorial School	Osterville Free Library						
	Snow Library (Orleans)						
Higher Education and Research	South Yarmouth Library						
Institutions(11)	West Dennis Free Public Library						
Cape Cod Community College	West Falmouth Library						
Woods Hole Oceanographic Institution	West Yarmouth Library						
Marine Biological Laboratory	Eastham Public Library						
Woods Hole Research Center	Harwich/Brooks Free Library						
US Geological Survey	South Dennis Free Public Library						
National Marine Fisheries Service	Truro Public Library						

Sea Education Association Massachusetts Maritime Academy Massasoit Community College Bridgewater State College Bristol Community College

Town Government Facilities (18)

Each of 18 towns will provide a list of its buildings in priority order. OpenCape will connect at least one priority building in each town along the final fiber path.

Wellfleet Public Library
Barnstable/Sturgis Library
Brewster Ladies Library
Dennis Memorial Library
East Dennis Library (Jacob Sears)
Provincetown Public Library
W.Barnstable/Whelden Memorial Library
Yarmouthport Library
Woods Hole Public Library

Penikese Island School for Boys

The OpenCape path is specifically intended to connect these vital institutions. Also, the path permits many additional anchor institutions the ability to rapidly obtain service from the network including six hospitals, eight additional libraries, two additional higher education institutions, ten county, state or federal institutions, five commercial/industrial centers, and potentially 150 public safety facilities. These institutions include:

Hospitals (7)

Falmouth Hospital
Cape Cod Hospital
Outer Cape Health Care
Jordon Hospital
Martha's Vineyard Hospital
Nantucket Cottage Hospital
South Coast Hospital

Higher Education (2)

University of Massachusetts Dartmouth School of Marine Science and Technology

Public Safety

The OpenCape network will create the opportunity for over 150 public safety buildings to be connected to the network.

Libraries (8)

Sandwich Public Library
Plymouth Public Library
Brockton Public Library
CLAMS Office
Edgartown Free Public Library
Nantucket Atheneum
Oak Bluffs Public Library
Vineyard Haven Public Library

County, State and Federal (10)

Wampanoag Tribal Center - Mashpee
Massachusetts State Police
County Sheriff Department
Barnstable County Emergency Planning
Otis Air Force Base
US Coast Guard — Falmouth and Provincetown
National Academy of Science
Cape Cod National Seashore
Cape Cod Education Collaborative
Highland Center — Cape Cod National Seashore

Industrial/Commercial (5)

Falmouth Technology Park
Raymond Technology Park
Plymouth Rock Studios
Mashpee Commons Shopping Center
Mashpee Industrial Park

UNSERVED AND UNDERSERVED CENSUS BLOCKS

There are over 175 unserved or underserved census blocks within the OpenCape service area. The census blocks are listed below. The OpenCape network will provide termination points in at least the unserved census blocks in Truro (census tract 010200, block group 4, block 400) and in Edgartown (census tract 200300, block group 1, block 1020) and the underserved census block on Penikese Island (census tract 200400, block group 6, block 6043).

Unserved Census blocks

Census Tract 101 blocks 1000, 1006

Census Tract 102 blocks 1000-1005, 2000, 2040-2042, 4000-4003, 4033, 4069-4070, 4083-4084

Census tract 2003 blocks 1004-1005, 1020, 1031-1039

Census tract 2004, blocks 6012-6039, 6043-6060

Underserved Census Blocks

Census tract 104 blocks 3013, 3015-3016, 3020

Census tract 108 blocks 5015-5021, 5024-5028

Census tract 109 blocks 1012, 1034-1036

Census tract 2003 blocks 1000-1003, 1006-1019, 1021-1030, 1040-1066

Census tract 2004 blocks 6000-6011, 6061-6071

TOTAL SERVICE AREA DESCRIPTION

The OpenCape service area consists of over 15,000 census blocks. The list below reflects all of the service blocks in the OpenCape service area. The list has been consolidated and formatted to avoid providing a list of each census block number. The census blocks are available as a list, but that list is 850 pages long. At the request of NTIA officials we are providing this much shorter consolidated list:

All of Barnstable County including:

Census tract 0101 blocks 1000 – 1038, 2000 - 2020, 3001 - 3017, 4000 - 4016, 5001 - 5030

Census tract 0102 blocks 1000 - 1057, 2000 - 2043, 4000 - 4084, 6001 - 6040, 8000 - 8052, 9001 - 9050

Census tract 0103 blocks 1000 - 1036, 3000 - 3045, 4000 - 4058, 6000 - 6023, 7001 - 7035, 8000 - 8045

Census tract 0104 blocks 1000 - 1024, 2000 - 2015, 3000 - 3022, 4000 - 4034

Census tract 0105 blocks 1000 - 1037, 2000 - 2042, 5000 - 5030, 6000 - 6036

Census tract 0106 blocks 1000 - 1043, 2000 - 2030, 3000 - 3043, 4000 - 4030

Census tract 0107 blocks 1000 - 1032, 2000 - 2021, 3000 - 3049, 5000 - 5037, 6000 - 6992

Census tract 0108 blocks 1000 - 1030, 2000 - 2045, 4000 - 4017, 5000 - 5994, 6000 - 6017

Census tract 0109 blocks 1000 - 1039, 2000 - 2020, 3000 - 3038, 4000 - 4023

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Census tract 0110 blocks 1000 - 1062, 2000 - 2012, 3000 - 3045, 5000 - 5045
Census tract 0111 blocks 1000 - 1028, 2000 - 2023, 3000 - 3076, 4000 - 4029
Census tract 0112 blocks 1000 - 1047, 2000 - 2015, 4000 - 4020, 5000 - 5025, 6000 - 6031
Census tract 0113 blocks 1000 - 1027, 2000 - 2030, 3000 - 3018, 4000 - 4027
Census tract 0114 blocks 1000 - 1033, 2000 - 2016, 3000 - 3020, 4000 - 4021
Census tract 0115 blocks 1000 - 1019, 2000 - 2031, 3000 - 3046, 4000 - 4029, 5000 - 5014
Census tract 0116 blocks 1000 - 1025, 2000 - 2021, 3000 - 3009, 4000 - 4104
Census tract 0117 blocks 1000 - 1030, 2000 - 2108
Census tract 0118 blocks 1000 - 1023, 2000 - 2040, 3000 - 3030, 4000 - 4032, 5000 - 5034
Census tract 0120 blocks 1000 - 1062, 3000 - 3043, 4000 - 4043, 5000 - 5040, 6000 - 6044, 7000
- 7051, 8000 - 8069
Census tract 0121 blocks 1000 - 1038, 2000 - 2059, 3000 - 3030, 4000 - 4026, 5000 - 5037, 6000
- 6027, 7000 - 7041, 8000 - 8034, 9000 - 9051
Census tract 0122 blocks 1000 - 1060, 2000 - 2023, 3000 - 3024, 4000 - 4033
Census tract 0123 blocks 1000 - 1034
Census tract 0124 blocks 1000 - 1023, 2000 - 2038
Census tract 0125 blocks 1000 - 1017, 2000 - 2010, 3000 - 3019, 4000 - 4057
Census tract 0126 blocks 1000 - 1022, 2000 - 2017, 3000 - 3008, 4000 - 4013, 5000 - 5019, 6000
- 6022
Census tract 0127 blocks 1000 - 1028, 2000 - 2026, 3000 - 3039, 4000 - 4045
Census tract 0128 blocks 1000 - 1056, 2000 - 2030
Census tract 0129 blocks 1000 - 1010, 2000 - 2034, 3000 - 3024
Census tract 0130 blocks 1000 - 1038, 3000 - 3022, 4000 - 4060
Census tract 0131 blocks 1000 - 1053, 2000 - 2041, 3000 - 3020
Census tract 0132 blocks 1000 - 1047, 2000 - 2055, 3000 - 3031
Census tract 0133 blocks 1000 - 1051, 2000 - 2031, 3000 - 3019, 4000 - 4032
Census tract 0134 blocks 1000 - 1032, 2000 - 2008, 3000 - 3030, 4000 - 4032
Census tract 0135 blocks 1000 - 1031, 2000 - 2020, 3000 - 3039, 4000 - 4012
Census tract 0136 blocks 1000 - 1059, 2000 - 2061
Census tract 0137 blocks 1000 - 1040, 2000 - 2018, 3000 - 3034, 4000 - 4033
Census tract 0138 blocks 1000 - 1043, 2000 - 2039, 3000 - 3036
Census tract 0139 blocks 1000 - 1026, 2000 - 2053, 3000 - 3046, 4000 - 4044
Census tract 0140 blocks 1000 - 1099, 3000 - 3017, 4000 - 4063, 5000 - 5026
Census tract 0141 blocks 1000 - 1021
Census tract 0143 blocks 1000 - 1068, 2000 - 2036, 3000 - 3026, 5000 - 5025, 6000 - 6026
Census tract 0144 blocks 1000 - 1036, 2000 - 2081
Census tract 0145 blocks 1000 - 1034, 2000 - 2037, 3000 - 3054, 4000 - 4049
Census tract 0146 blocks 1000 - 1022, 2000 - 2015, 3000 - 3054, 4000 - 4038
Census tract 0147 blocks 1000 - 1027, 2000 - 2011, 3000 - 3026, 5000 - 5065
Census tract 0148 blocks 1000 - 1021, 2000 - 2011, 3000 - 3028, 4000 - 4054, 5000 - 5020
Census tract 0149 blocks 1000 - 1062, 3000 - 3025, 4000 - 4023, 5000 - 5024, 6000 - 6014, 7000
- 7011
Census tract 0150 blocks 1000 - 1060, 2000 - 2082, 3000 - 3036
Census tract 0151 blocks 1000 - 1047, 2000 - 2036
```

All of Dukes County including:

```
Census tract 2001 blocks 1000 - 1065, 2000 - 2044, 3000 - 3022, 4000 - 4030, 5000 - 5035 Census tract 2002 blocks 1000 - 1060, 2000 - 2093, 3000 - 3075, 4000 - 4045, 5000 - 5029 Census tract 2003 blocks 1000 - 1066, 2000 - 2084, 3000 - 3099, 4000 - 4046 Census tract 2004 blocks 1000 - 1045, 2000 - 2092, 3000 - 3061, 4000 - 4039, 5000 - 5047, 6000 - 6072
```

All of Nantucket County including:

```
Census tract 9501 blocks 1000 - 1058, 2000 - 2028, 3000 - 3031, 4000 - 4050 Census tract 9502 blocks 1000 - 1027, 2000 - 2021, 3000 - 3008, 4000 - 4039 Census tract 9503 blocks 1000 - 1046, 2000 - 2022, 3000 - 3033, 4000 - 4019 Census tract 9504 blocks 1000 - 1009, 2000 - 2018, 3000 - 3015, 4000 - 4005 Census tract 9505 blocks 1000 - 1036, 2000 - 2100, 3000 - 3042, 4000 - 4042
```

11 towns in Plymouth County including:

```
Census tract 5091 blocks 1000 - 1051, 2000 - 2030, 3000 - 3008, 4000 - 4044, 5000 - 5044, 6000
- 6031
Census tract 5101 blocks 1000 - 1020, 2000 - 2009, 3000 - 3013, 4000 - 4008
Census tract 5102 blocks 1000 - 1014, 2000 - 2019, 3000 - 3015, 4000 - 4020, 5000 - 5011
Census tract 5103 blocks 1000 - 1021, 2000 - 2008, 3000 - 3009
Census tract 5104 blocks 1000 - 1009, 2000 - 2009, 3000 - 3009, 4000 - 4008
Census tract 5105 blocks 1000 - 1016, 2000 - 2014, 3000 - 3004, 4000 - 4004, 5000 - 4003
Census tract 5106 blocks 1000 - 1014, 2000 - 2011, 3000 - 3012
Census tract 5107 blocks 1000 - 1005, 2000 - 2004, 3000 - 3009, 4000 - 4009, 5000 - 5011, 6000
- 6018, 7000 - 7013
Census tract 5108 blocks 1000 - 1003, 2000 - 2013, 3000 - 3006, 4000 - 4010, 5000 - 5009, 6000
- 6010
Census tract 5109 blocks 1000 - 1019, 2000 - 2020, 3000 - 3009
Census tract 5110 blocks 1000 - 1009, 2000 - 2009, 3000 - 3009, 4000 - 4007
Census tract 5111 blocks 1000 - 1012, 2000 - 2009, 3000 - 3032, 4000 - 4011, 5000 - 5006, 6000
- 6015
Census tract 5112 blocks 1000 - 1007, 2000 - 2016, 3000 - 3006, 4000 - 4008, 5000 - 5004
Census tract 5113 blocks 1000 - 1019, 2000 - 2007, 3000 - 3020, 4000 - 4026, 5000 - 4003
Census tract 5114 blocks 1000 - 1009, 2000 - 2009, 3000 - 3007, 4000 - 4008
Census tract 5115 blocks 1000 - 1009, 2000 - 2008, 3000 - 3014, 4000 - 4007
Census tract 5116 blocks 1000 - 1013, 2000 - 2011, 3000 - 3011, 4000 - 4005, 5000 - 5010, 6000
- 6021, 7000 - 7011
Census tract 5117 blocks 1000 - 1010, 2000 - 2025, 3000 - 3011, 4000 - 4010, 5000 - 3016
Census tract 5231 blocks 1000 - 1036, 2000 - 2009
```

```
Census tract 5232 blocks 1000 - 1022, 2000 - 2006, 3000 - 3009, 4000 - 4033
Census tract 5251 blocks 1000 - 1019, 2000 - 2006, 3000 - 3009, 4000 - 4028, 5000 - 4024
Census tract 5252 blocks 1000 - 1012, 2000 - 2027, 3000 - 3019, 4000 - 4009, 5000 - 5007
Census tract 5253 blocks 1000 - 1015
Census tract 5261 blocks 1000 - 1024, 2000 - 2015, 3000 - 3027, 4000 - 4018, 5000 - 5031
Census tract 5301 blocks 1000 - 1017, 2000 - 2019
Census tract 5302 blocks 1000 - 1010, 2000 - 2009, 3000 - 3008, 4000 - 4006
Census tract 5303 blocks 1000 - 1011, 2000 - 2004, 3000 - 3011, 4000 - 4012, 5000 - 5024
Census tract 5304 blocks 1000 - 1026, 2000 - 2011, 3000 - 3032, 4000 - 4025
Census tract 5305 blocks 1000 - 1030, 2000 - 2009, 3000 - 3006, 4000 - 4008, 5000 - 5025
Census tract 5306 blocks 1000 - 1068, 2000 - 2033, 3000 - 3063, 4000 - 4109
Census tract 5307 blocks 1000 - 1031, 2000 - 2993
Census tract 5308 blocks 1000 - 1025, 2000 - 2019, 3000 - 3019, 4000 - 4050, 5000 - 5041, 6000
- 6042, 7000 - 7058
Census tract 5309 blocks 1000 - 1030, 2000 - 2030, 3000 - 3030, 4000 - 4058, 5000 - 5026, 6000
- 6077
Census tract 5421 blocks 1000 - 1034, 2000 - 2029, 3000 - 3041, 4000 - 4062
Census tract 5422 blocks 1000 - 1045, 2000 - 2008, 3000 - 3005, 4000 - 4020
Census tract 5423 blocks 1000 - 1015, 2000 - 2016, 3000 - 3012, 4000 - 4026, 5000 - 5031, 6000
- 6007
Census tract 5431 blocks 1000 - 1014, 2000 - 2032
Census tract 5441 blocks 1000 - 1022, 2000 - 2021, 3000 - 3030, 4000 - 4019
Census tract 5442 blocks 1000 - 1124, 2000 - 2102, 3000 - 3076
Census tract 5451 blocks 1000 - 1052, 2000 - 2026, 3000 - 3106, 4000 - 4060
Census tract 5452 blocks 1000 - 1122, 2000 - 2062, 3000 - 3084, 4000 - 4994, 5000 - 5027
Census tract 5453 blocks 1000 - 1100, 2000 - 2059, 3000 - 3055, 4000 - 4045
Census tract 5454 blocks 1000 - 1017, 2000 - 2099, 3000 - 3037, 4000 - 4063
Census tract 5601 blocks 1000 - 1074, 2000 - 2026, 3000 - 3062, 4000 - 4017, 5000 - 5023, 6000
- 6021
Census tract 5611 blocks 1000 - 1061, 2000 - 2022, 3000 - 3039, 4000 - 4015, 5000 - 5013
```

OpenCape Historical Financial Cash Flow Statement

		Historical	Years			
	-	2009				
Operating Cash Flow [(CAPeX+NetInc) - Depreciation)]						
Net Income	\$	-	\$			
Depreciation	\$	-	\$	÷		
CAPX	\$	-	\$			
Operating Cash Flow	\$	5	\$	=		
Sources of Financing						
Initial Grants from Community Sponsors	\$	68,136	\$	107,603		
	\$	-	\$.		
	\$	-	\$	-		
	\$	-	\$	=		
	\$	-	\$	-		
Total Capital Available	\$	68,136	\$	107,603		
Annual Capital Reserves (Deficits)	\$	-	\$	-		
Cumulative Capital Reserves (Deficits)	\$	_	\$			

OpenCape Historical

Income Statement

		Historical	Yea	rs
		2008		2009
Revenue				
Ва	arnstable County EDC	\$ 16,890	\$	18,984
Jo	ohn Adams Innovation Institute Grant	\$ 51,246	\$	88,619
O	other Contributions	\$ -	\$	
OpenCape Gross Revent	ue	\$ 68,136	\$	107,603
Cost of Sales				
0	ther	\$ -	\$	- 4
0	ther	\$ 	\$	
Cost of Sales		\$ -	\$	•
Gross Margin		\$ 68,136	\$	107,603
General, & Administrativ	e			
Nun	nber of SG&A Employees	0		(
Sala	ary / Wages (Grant Period, then Operationa	\$ 	\$	
Emp	ployee Benefits (30% of Salary/wages)	\$ -/-	\$	-
Offic	ce Space Utilities, rent, etc.	\$ 7.9	\$	-
Offic	ce Equipment/Furniture/Supplies/Employee	\$ -	\$	
Offic	ce Supplies and Misc	\$ 750	\$	-
Trav	el Expenses and Reimbursable	\$ 371	\$	89
Med	lia / Collateral Material/Web site	\$ 2,767	\$	3,243
Boa	rd Meetings	\$ -	\$	-
Tele	ephone and Internet	\$ -	\$	4
Prof	fessional Services - Legal, Accounting, Con	\$ 61,948	\$	102,087
Insu	rance Premiums (D&O, Property, Liability)	\$ 2,300	\$	2,184
General, & Administrativ	e	\$ 68,136	\$	107,603
SG8	&A as % of Revenue	100%		100%
Total Operational Costs:		\$ 68,136	\$	107,603
EBITDA		\$ 0	\$	0

		2	800	2	2009
SSETS					
Currer	nt Assets	1201		250	
	Cash	\$	=	\$	-
	Accounts Receivable	\$	=	\$	7.0
	Grants Receivable	\$	==	\$	7.00
	Reserves Established for Plant Replacement	\$	=	\$	
	Prepayments	\$	= ,	\$.=1
	Total Current Assets	\$	2	\$	-
Broad	pand Plant				
	Construction work-in-progress	\$	<u>=</u>	\$	
	Spares and Supplies	\$	=	\$	### ####
	Plant in Service, at Cost	\$	2	\$	828. 728.
		\$	-	- 	-
	Less Accumulated Depreciation	\$	-	\$	-
	Net Broadband Plant	\$	=	\$	7.50
	Total Assets	\$	-	\$	-
IADU ITICO AND		<u>*</u>	2	<u>\$</u>	-
	NET ASSETS (EQUITY) nt Liabilities	<u>\$</u>		<u>\$</u>	
	NET ASSETS (EQUITY)	\$ \$		\$ \$	
	NET ASSETS (EQUITY) nt Liabilities	\$	<u>-</u>	1	-
	NET ASSETS (EQUITY) nt Liabilities Accounts Payable		- - -	\$	
Currer	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities	\$		\$ \$	
Currer	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities Ferm Liabilities	\$ \$	- - -	\$ \$	-
Currer	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities Ferm Liabilities Debt Financing	\$ \$ \$		\$ \$ \$	
Currer	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities Ferm Liabilities	\$ \$	-	\$ \$ \$	8
Currer	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities Ferm Liabilities Debt Financing Capital Leases Total Long-Term Liabilities	\$ \$ \$		\$ \$ \$ \$	-
Currer	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities Ferm Liabilities Debt Financing Capital Leases	\$ \$ \$		\$ \$ \$	
Currer Long-	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities Ferm Liabilities Debt Financing Capital Leases Total Long-Term Liabilities Total Liabilities	\$ \$ \$ \$ \$	- -	\$ \$ \$ \$ \$	8
Currer Long-	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities Ferm Liabilities Debt Financing Capital Leases Total Long-Term Liabilities Total Liabilities Seets (Equity) Temporarily Restricted Net Assets	\$ \$ \$ \$ \$		\$ \$ \$ \$ \$	
Currer Long-	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities Ferm Liabilities Debt Financing Capital Leases Total Long-Term Liabilities Total Liabilities Liabilities Total Liabilities Total Liabilities Seets (Equity) Temporarily Restricted Net Assets Unrestricted Net Assets	\$ \$ \$ \$ \$ \$ \$	-	\$ \$ \$ \$ \$ \$ \$	
Currer Long-	NET ASSETS (EQUITY) Int Liabilities Accounts Payable Prepaid Services Total Current Liabilities Ferm Liabilities Debt Financing Capital Leases Total Long-Term Liabilities Total Liabilities Seets (Equity) Temporarily Restricted Net Assets	\$ \$ \$ \$ \$		\$ \$ \$ \$ \$	

Historical Years

SERVICE AREA o	or COMMON NETWORK FACILITIES:	Eligibility (Yes/No)	Unit Cost	No of Units	Total Cost	Support of Reasonableness
NETWORK & ACCES	S EQUIPMENT					
Switching	Ethernet Transport	Yes	15000	10	\$150,000	Representative RCN Metro pre-negotiated equipment cost from
Switching	Engineering, Installation, & Test	Yes	2695	10	\$26,950	vendors such as Nortel, Ciena, and Cisco were used to establish
Routing) t = t = 51				the network equipment cost. Cost for the following were included
	5°DWDM ROADM Node w/2° lit	Yes	85850	7	\$600,950	
	5°DWDM ROADM Node w/3° lit	Yes	129500	2	\$259,000	$ bracket{[(1) Optical networking equipment to establish the DWDM ROADN}$
Transport	5°DWDM ROADM Node w/4° lit	Yes	162600	2	\$325,200	network
Transport	Installation Materials - Verizon COs	Yes	6891	9	\$62,019	
	Installation Materials - RCN Metro CO	Yes	1500	1 1	\$1,500	(2) Ethernet transport circuit packs to provide three 10Gb/s
	Installation Materials - Barnstable Collo	Yes	1500	1	\$1,500	Ethernet Rings
Access	Ethernet Switch	Yes	4000	65	\$260,000	
400033	Backup power & materials	Yes	4100	65	\$266,500	(3) Ethernet access switches for 65 OpenCape participants
	Transport Engineering, Installation,	11 7 7				
	Configuration, & Test	Yes	10955	11	\$120,505	(4) Engineering, Installation, Configuration, and Test
Other	Access Engineering, Installation,				1 - 1	
Julei	Configuration, & Test	Yes	1995	65	\$129,675	All work to be preformed by RCN Metro or RCN Metro's
	Ethernet Ring Engineering, Installation,					representatives in accordance with RCN Metro standards and
	Configuration, & Test	Yes	2695	8	\$21,560	customary telecommunications practices.
Category Total					\$2,225,359	
	OUTSIDE PLANT					
Cables	Aerial Cabling					allows the best use of financial resources, minimizes the effect or wetlands and other sensitive environmental areas. In addition, the timely installation of about two hundred and forty miles of cable by using existing structures will help to complete.
	Aerial Survey	Yes	62	20000	\$1 240 313	Cost of survey Public Utilities (per pole)
	Aerial Make-Ready	Yes	279	20000		Make-ready required for pole attachments (per pole)
	Cable Exterior	Yes	2	1958880		Cost of the all cable - 288F ADSS (per ft.)
	Hardware	Yes	345,037	1		Cost of splice cases, slack management/snow shoes (total)
	Underground Conduit & Ducts					The strategic use of underground cabling into the data center, co Pop's and microwave systems allows the use of some of the existing underground infrastructure and the utility entrances into buildings. Engineering and Installation to be done in accordance with standard and customary practices.
Conduits & Ducts	Permitting/Bonding/ROW	Yes	85,050	1	\$85,050	Permitting/bonding/ROW costs for UG construction (total)
Exterior	Telco UG Conduit Survey	Yes	4.00	74665		Verizon Telephone conduit survey fees (per foot)
	Telco Conduit Make-Ready	Yes	4.2	74665		Make-ready (innerduct placement) for OpenCape fiber
	Telco Manhole Breakouts	Yes	1,584	40		Cost to break in and out of Verizon manholes (per MH)
	Contract Work Inspector	Yes	124	400		Verizon inspectors to oversee work in their conduits (per hr)
	Conduit Placing	Yes	191,548	31		New conduit expense (cost per mile, grass/concrete/asph)
	Innerduct Placing	Yes	10,623	31		Innerduct expense and placement in new conduit
	Interior Construction Costs					Allows the connectivity between the optronics equipment and the network.
	Conduit Placing	Yes	11,340	50	\$567,000	EMT conduit construction (per location)
Conduits and Ducts	Innerduct Placing	Yes	1,198	50		Cost and placement of Innerduct in EMT conduit (per location)
Interior	Cable Placing	Yes	425	50	\$21,263	
	Cable Splicing	Yes	1,515	70	\$106,029	ISP Splicing expense (per location), incl. Central Offices

	or COMMON NETWORK FACILITIES:	Eligibility (Yes/No)	Unit Cost	No of Units	Total Cost	Support of Reasonableness
NETWORK & ACCES	SS EQUIPMENT					
	Telco CATT Application/M-R	Yes	3,402	15	\$51,030	Verizon Central Office Vault splice location fees
Poles	Not Required					Using existing utility structures
		1				
	Microwave Equipment	Yes	105000	15		Equipment, materials, installation, configuration, and testing costs
	Materials	Yes	40000	15		extrapolated from an 8 node microwave design quote provided by
	Installation contractor	Yes	20000	15		RCN Metro.
	Public Safety 700Mhz System	Yes	40000	15	\$600,000	
Towers						The installation of the proposed microwave network will primarily provide service for public safety and emergency services between the Cape and Islands. The network provides a reasonable amount of the cape and learning t
						of backup bandwidth for commercial services between the Cape & Islands, and between Provincetown and Orleans.
Repeaters	Not Required					
	Engineering / Project Mgmt.	Yes	100	1375	\$137,781	Contract and in-house Engineering / Project Mgmt.
Other	Exterior Cable Placing	Yes	13,019	371	\$4,829,919	Costs associated with cable placement (total aerial and UG)
Other	Exterior Cable Splicing	Yes	150	1588		Splicing expense (per splice location)
	Police Details	Yes	63	65000		Traffic Control (hourly cost per detail) - multiple details per day
Category Tota		1 1			\$31,132,714	
	BUILDINGS					
New Construction						
Pre-Fab Huts						
Improvements and	Barn. Cty. Bldg. IRU	Yes	1000000	1	\$1,000,000	25 year IRU/Capital Lease from Barnstable County of 10,000 soft building
Renovations	Barn. Cty. Bldg. Renovation	Yes	1410000	1	\$1,410,000	Building general renovation, ADA compliance, utility infrastructure upgrade
	ISPE	Yes				
	HVAC	Yes	452000	1	\$452,000	3 tons of cooling for the electric room, 10 tons of cooling for the data center & 9 APC in row cooling racks .
	UPS	Yes	115000	1	\$115,000	Installation contractor for the UPS, HVAC, Infrastructure materials
	Trans	Yes			\$0	
		1 [Equipment Racks, Cable ladder system, grounding & Fire
Data Center	Materials	Yes	435000	1		Suppression system
	Inergen	Yes			\$0	
	VM SAN	Yes	425000	1	\$425,000	Storage Area Network
	Generator & Infrastructure	Yes	348000	1	\$348,000	Includes generator pad, transfer switch, and wiring for the Data Center Emergency electrical backup system
	In row cabs	Yes	3472	36	\$124,992	Provide 36 cabinets for the housing of the optronics
	Electrical Infrastructure	Yes	201000	1	\$201,000	New electric service to the building, electrical distribution panels, transformer and interior electrical wiring.
	POPs	Yes	68334	3	\$205,002	Installation of the racks to support the installation of the Cisco 3750s, & the FDP to accept the OSP fiber.

SERVICE AREA o	or COMMON NETWORK FACILITIES:	Eligibility (Yes/No)	Unit Cost	No of Units	Total Cost	Support of Reasonableness
NETWORK & ACCES						
	Verizon CO's	Yes	16016	8	\$128,128	Co's provide for regeneration and the handoff to those without laterals into their facilities
	Materials	Yes	57348	1		Materials for the installation of equipment in the CO's.
Other	Project Management	Yes	81550	1	\$81,550	In house project management for the construction of the Data
Category Total					\$4,983,020	
Custo	mer Premise Equipment					
Modems						
Set Top Boxes						
Inside Cabling						
Other						
Category Total					\$0	
BILLING SUPPORT a	nd OPERATIONS SUPPORT SYSTEMS					
Billing Support		7			[]	
Systems						
Customer Care						
Systems		10				
Other Support						
Category Total					\$0	
OPERATING EQUIPM	ENT					
Vehicles						
Office Equipment/	Furniture	Yes	23000	1	\$23,000	
Furniture	Computer and Phone Equip	Yes	21000	1	\$21,000	
Other		17 - 15 11				
Category Total	1 4 4 4 4				\$44,000	
PROFESSIONAL SER						
Engineering Design						
	Director	Yes	90	6,150	\$553,500	3 years w/30% benefits
Project Management	Construction Coordinator	Yes	60	6,150		3 years w/30% benefits
(OpenCape)	Administrative Support	Yes	30	6,150		3 years w/30% benefits
	Overhead & Other Admin	Yes	60000	3	\$180,000	
Consulting	Legal, Accounting, Compliance, Enviro	Yes	290	2,000	\$580,000	
Category Total					\$1,867,000	
OTHER UPFRONT CO	DSTS					
Site Preparation						
Other					22020200	
Proposal Prep 1	OpenCape Volunteers 7/9-8/14	Yes	90	980	\$88,200	
Proposal Prep 2	OpenCape Volunteers 8/14-12/31	Yes	90	890	\$80,100	
Post Award	OpenCape Volunteers Post Award	Yes	90	1,900	\$171,000	
Category Total					\$339,300	
Total					\$40,591,393	

Page 1 Attachment_M_OpenCape_CashFlows

OpenCape Business Plan Financial Proforma Cash Flow Statement

	Historical	Years		1	2		3	4	5
	2008		2009	2010	2011		2012	2013	2014
Operating Cash Flow [(CAPeX +NetInc) - Depreciation)]									
Net Income	\$ 	\$	-	\$ (100)	\$ (1,016,396)	5	(2,746,849)	\$ (2,930,775)	\$ (2,524,814
Depreciation	\$	\$		\$	\$ 1,375,000	\$	3,208,333	\$ 3,208,333	\$ 3,208,333
CAPX	\$	\$		\$ 16,500,000	\$ 22,000,000	\$		\$	\$
Operating Cash Flow	\$	\$		\$ (16,500,100)	\$ (21,641,396)	\$	461,485	\$ 277,558	\$ 683,520
Sources of Financing									
Initial Grants from Community Sponsors	\$ 68,136	\$	107,603	\$	\$	\$		\$	\$
Barnstable County Building Contribution	\$ 	\$		\$ 1,000,000					
RCN Initial Contribution	\$ 45	\$	-	\$ 500,000	\$ 1,000,000	\$	500,000		
Massachusetts Incentive Fund Contribution	\$	\$		\$ 2,500,000	\$ 2,500,000	\$		\$	\$
NTIA BTOP Grant	\$	\$		\$ 13,000,000	\$ 19,000,000	\$		\$ 	\$
Total Capital Available	\$ 68,136	\$	107,603	\$ 17,000,000	\$ 22,500,000	\$	500,000	\$ -	\$ - 1
Annual Capital Reserves (Deficits)	\$	\$		\$ 499,900	\$ 858,604	\$	961,485	\$ 277,558	\$ 683,520
Cumulative Capital Reserves (Deficits)	\$	\$	- 1	\$ 499,900	\$ 1,358,504	\$	2,319,988	\$ 2,597,547	\$ 3,281,066

Note: This Proforma Cash Flow statement in not refined and does not reflect the impact of changes in working capital – growing inventory, receivables, etc.

OpenCape Business Plan Financial Proforma Proforma Balance Sheet

Proforma Balance Sheet	Historical	Υe	ars	. 1 2			3			4	5		
<u>31-Dec</u>	2008		2009	•	<u>2010</u>		<u>2011</u>		<u>2012</u>		<u>2013</u>		<u>2014</u>
ASSETS													
Current Assets													
Cash	\$ -	\$	-	\$	300,000		300,000			\$	300,000		300,000
Accounts Receivable	\$ -	\$	500,000	\$.,	\$	500,000		11,852		31,585		64,661
Grants Receivable	\$ -	\$	15,500,000		21,500,000	\$	-	\$	-	\$	-	\$	-
Reserves Established for Plant Replacement	\$ -	\$	-	\$		\$	858,604	\$	1,820,088	\$	2,097,647	\$	2,781,166
Prepayments	\$ -	\$	-	\$	28,862	\$	29,487	\$	20,987	\$		\$	22,569
Total Current Assets	\$ -	\$	16,000,000	\$	22,828,862	\$	1,688,091	\$	2,152,927	\$	2,450,993	\$	3,168,397
Broadband Plant													
Construction work-in-progress	\$ -	\$	-	\$	15,900,000	\$	20,900,000	\$	-	\$	-	\$	-
Spares and Supplies	\$ -	\$	-	\$	-	\$	362,000	\$	755,240	\$	785,105	\$	785,702
Plant in Service, at Cost	\$ 	\$		\$	2,200,000	\$	16,500,000	\$	38,500,000	\$	38,500,000	\$	38,500,000
	\$ -	\$	-	\$	18,100,000	\$	37,762,000	\$	39,255,240	\$	39,285,105	\$	39,285,702
Less Accumulated Depreciation	\$ -	\$		\$	1,375,000	\$	4,583,333	\$	7,791,667	\$	11,000,000	\$	14,208,333
Net Broadband Plant	\$ -	\$	-	\$	16,725,000	\$	33,178,667	\$	31,463,573	\$	28,285,105	\$	25,077,369
Total Assets	\$ 	\$	16,000,000	\$	39,553,862	<u>\$</u>	34,866,757	\$	33,616,500	\$	30,736,098	\$	28,245,765
LIABILITIES AND NET ASSETS (EQUITY) Current Liabilities													
Accounts Payable	\$ -	\$	-	\$	46,925	\$	43,776	\$	32,836	\$	19,044	\$	19,851
Prepaid Services	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total Current Liabilities	\$ -	\$	-	\$	46,925	\$	43,776	\$	32,836	\$	19,044	\$	19,851
Long-Term Liabilities													
Debt Financing	\$ -	\$	-	\$	-	\$	-	\$	_	\$	-	\$	-
Capital Leases	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total Long-Term Liabilities	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total Liabilities	\$ 	\$		\$	46,925	\$	43,776	\$	32,836	\$	19,044	\$	19,851
Net Assets (Equity)													
Temporarily Restricted Net Assets	\$ -	\$	15,500,000	\$	21,500,000	\$	_	\$	-	\$	_	\$	-
Unrestricted Net Assets	\$ -	\$	500,000	\$	18,006,937	\$	34,822,982	\$	33,583,665	\$	30,717,055	\$	28,225,915
Fund Balance	\$ -	\$	16,000,000	\$	39,506,937	\$	34,822,982	\$	33,583,665	\$	30,717,055	\$	28,225,915
Total Liabilities and Net Assets	\$ 	\$	16,000,000	\$	39,553,862	\$	34,866,757	\$	33,616,500	\$	30,736,098	\$	28,245,765

Attachment_K_OpenCape_Income_StatementA

Income Statement

		Historical	Years		1	2		3		4		5
		2008		2009	2010	2011		2012		2013		2014
Revenue												
Barnstable County EDC	\$	16.890	\$	18.984	\$ 100	\$ 	\$		\$		\$	1.0
John Adams Innovation Institute Grant	\$	51.246		88,619	\$	\$	\$		\$		\$	
Partner 8% of Gross	\$	01,240	\$	00,0,0	\$	\$ 35,844	\$	142,223	150	379,021	\$	775.93
Partner Licensing Fee w/ 3% inflation	\$		\$	-	\$ _	\$ 300,000		309,000			\$	327.81
NTIA Grant Administration and Compliance	\$	_	\$	-	\$ 600.000	\$ 600,000		600,000			\$	021,0
Service Fees (County, Erate, etc.)	\$	-6	\$	-	\$ -	\$ -	\$		\$		\$	10,00
Other Contributions	\$	-	\$	_	\$ -	\$ -	\$		\$	_	\$	5,00
OpenCape Gross Revenue	\$	68,136	•	107,603	\$ 600,000	935,844	\$	1,051,223		697,291		1,118,75
Cost of Sales												
Pole Attachment Fees (240 miles, 8448 poles @\$4.92 per)	\$		\$		\$	\$ 5,000	\$	41,564	\$	42,811	\$	44.09
State Innerduct Lease Fees (50 miles, 264,000'@ .10 per)	\$		\$		\$	\$ 5.000	\$	26,400		27,192		28,00
Utility Innerduct Lease Fees (10 miles, 52,800' @\$.46 per)	\$	_	\$	-	\$ - 2	\$ 5,000	\$	24,288		25,017		25,76
Generator Maintenance (\$450/set/yr for 2x visits)	\$	-2	\$	-	\$	\$ 0,000	\$	13,500		13,905		14,32
Physical Plant fiber insurance	\$		\$		\$ 10.1	\$	\$	20,000		20,600		21,21
Microwave Plant insurance	\$		\$		\$	\$ 	\$	4,000		4,120		4.24
Collocation Center Insurance	\$		\$		\$	\$ 2	\$	15,000		15,450		15,91
Other	\$		\$		\$ 	\$ 1	\$	1,000		1,030		1,06
Other	\$	- 2	\$		\$ - 2	\$ 	\$				\$	2,12
Cost of Sales	\$		\$	- 7	\$	\$ 15,000	-	147,752	-	152,185	100	156,75
Gross Margin	\$	68,136	\$	107,603	\$ 600,000	\$ 920,844	\$	903,471	\$	545,106	\$	962,00
Gross Margin%	N/A		N/A		100%	98%		86%		78%		86
General, & Administrative												
Number of SG&A Employees		0		0	3	3		3		2		
Salary / Wages (Grant Period, then Operational)	\$	-	\$	-	\$ 287,000	287,000		287,000		135,000		140,40
Employee Benefits (30% of Salary/wages)	\$	-	\$	-	\$ 86,100	86,100		86,100		40,500		42,12
Office Space Utilities, rent, etc.	\$		\$	-	\$ 20,000	20,600		21,218		21,855		22,51
Office Equipment/Furniture/Supplies/Employee Technology	\$	-	\$	(-)	\$ 6,000	5,000		15,000		5,000		5,15
Office Supplies and Misc	\$	750	\$	-	\$ 2,000	2,060		2,122		2,185		2,25
Travel Expenses and Reimbursable	\$	371	\$	89	\$ 6,000	 5,000		7,500		9,375	\$	10,31
Media / Collateral Material/Web site	\$	2,767	\$	3,243	\$ 7,000	\$ 6,000	\$	6,000	\$	6,000	\$	6,60
Board Meetings	\$	()	\$	-	\$ 2,000	2,060		2,122		2,185		2,25
Telephone and Internet	\$	1.00	\$	-	\$ 7,000	7,210		7,426		7,649		7,87
Professional Services - Legal, Accounting, Compliance, etc.	\$	61,948	\$	102,087	\$ 170,000	130,000		100,000		30,000		30,90
Insurance Premiums (D&O, Property, Liability)	\$	2,300	\$	2,184	\$ 7,000	\$ 7,210	\$	7,498	\$	7,798	\$	8,11
General, & Administrative	\$	68,136	\$	107,603	\$ 600,100	\$ 558,240	\$	541,986	\$	267,548	\$	278,48
SG&A as % of Revenue		100%		100%	100%	60%		52%		38%		25
Total Operational Costs:	\$	68,136	\$	107,603	\$ 600,100	\$ 573,240	\$	689,738	\$	419,733	\$	435,23
EBITDA	\$	0	\$	o	\$ (100)	\$ 362,604	\$	361,485	\$	277,558	\$	683,52
Depreciation												
Depreciation Expense	\$	2	\$	-	\$ 19	\$ 1,375,000	\$	3,208,333	\$	3,208,333	\$	3,208,33
Net Income	\$	0	\$	0	\$ (100)	\$ (1,012,396)	\$	(2,846,849)	\$	(2,930,775)	\$	(2,524,81
Net Income as % of Revenue	N/A		N/A		0%	-108%		-271%		-420%		-226

			Attach	men	t K OpenC	ape	Income_Stat	teme	entA				
PX						- 10							
Cape Cod Network	\$	727	\$ -	\$	8,000,000	\$	8,000,000	\$	787				
Internet Backbone Network - Providence and Boston	\$		\$	\$	6,000,000	\$	8,000,000	\$	1.5				
Regional Collocation/Data Center	\$	-	\$ -	\$	2,200,000	\$	2,000,000	\$	(#1)				
Start up Investment	\$	2	\$ -	\$	300,000	\$		\$	20	\$		\$	
PSMC	\$	-	\$ -			\$	1,500,000	\$	-				
CLAMS	\$	0.00	\$ 12			\$	1,000,000	\$	1.40				
Pandemic / Public Computing	\$	-	\$ -			\$	750,000	\$					
GIS	\$		\$ 	\$		\$	750,000	\$		\$	-	\$	-
Total Annual CAPX	\$	3-5	\$ -	\$	16,500,000	\$	22,000,000	\$	-	\$	-	\$	-
preciation Expense Calculations													
Network economic life in years		12	12		12		12		12		12		
First Year Capital Stock Depreciation Expense	\$	1927	\$ -	\$	-	\$	1,375,000	\$	1,375,000	\$	1,375,000	\$	1,375,0
Second Year Capital Stock Depreciation Expense	\$		\$ -	\$	-	\$	-	\$	1,833,333	\$	1,833,333	\$	1,833,3
Third Year Capital Stock Depreciation Expense	\$		\$ -	\$	-	\$	-	\$	jet.	\$	-	\$	-
Depreciation Expense	\$	1997	\$ -	\$	+	\$	1,375,000	\$	3,208,333	\$	3,208,333	\$	3,208,3
Accumulated Depreciation	•		\$ _	\$		\$	1.375.000	•	4,583,333	•	7.791.667	4	11,000.0

Depreciation Schedules	Months	Years
Aerial Fiber	180	15
Underground Fiber	240	20
Electronics	84	7
Shelters and Generators	120	10

The following major assumptions were used in developing the evaluation of the Addressable Market and the Financial Proforma Statements for the OpenCape Project:

In defining the addressable market for Open Cape, we assumed that telecommunications statistics published in the FCC Trends in Telephone Service Report, and the FCC ARMIS reports, which are published on a state-wide basis, can be factored down to the OpenCape footprint based upon population and remain valid. For example, Massachusetts has a population of 6.5 million people, and 5.3 million wireless subscribers. This yields a wireless service for every 1.23 persons. The OpenCape footprint has a total population of 870,000. We are forecasting the wireless subscribers in the addressable market of 707,000. This methodology was applied to all communications services. It is important to note that the population cited her is larger than is indicated as OpenCape's service area. Because OpenCape must build fiber to further connection points in Providence it will also have the opportunity to generate revenues in those areas over time.

In calculating the addressable market we assumed there is a correlation between household income and adoption rates for broadband and other communications services. The relative wealth of the OpenCape region is greater than the national average. The weighted-average median-household-income for the OpenCape region is \$61,651 per year. The national average is \$50,740. We believe this creates an economic index of 121.3% for the OpenCape region relative to the US, and using the same methodology, and economic index of 98.7% relative to the Commonwealth of Massachusetts. So, if the Massachusetts state-wide adoption of broadband is 64.4%, and rural adoption of broadband at the national level is 38.8%, we used the economic index of the OpenCape region to forecast the addressable-market adoption of broadband at 47.1%

OpenCape's business strategy is to address the "transport" portion of the telecommunications value chain, a so-called carriers' carrier strategy, and provide retail commercial services. In determining the addressable market, we used industry-wide statistics for calculating the size of the transport market. For example, the retail wireless market in the OpenCape region is approximately \$400 Million annually, the industry-wide average cost of transport for wireless networks is about 12% of retail sales. This yielded an addressable market of \$50 Million. However, we did not use \$50 Million as the potential market as we believe that once a circuit is provisioned, it is difficult to capture that portion of the market. Rather, we calculated the size of the high-potential addressable market -- the new transport business that is provisioned in support of organic growth -- in the case of wireless about \$2 Million in the first year. This same methodology was applied to all segments of the transport market. We calculated market share as a percentage of high-potential-market, only.

Market segment growth rates. We have modeled the addressable market using the following assumptions. Wireline telephony will continue to decline at a rate of 5% per year and will stabilize at 60% penetration (40% of homes will have supplanted wireleline telephony with wireless voice). Broadband adoption will slow to 7% annual growth rate until 95% penetration is achieved, at which point it will stabilize. Subscription video service is mature and static, however, prices will continue to increase at 4% annual growth rate for the planning horizon. Wireless voice growth rate in subscribership and Minute of Use (MOU) will slow to a 4% annual growth rate and stabilize at 98% market saturation. The initial plan for OpenCape is to work through a private partner for the sales, marketing, provisioning of services, and customer care -- including billing. OpenCape used a disciplined RFI process to select the private partner. The market share, customer retention, and overall success of OpenCape in the marketplace is directly linked to the quality of the efforts of that partner. Public-private partnerships can present unique challenges. This plan assumes the operator will be a good operator and deliver on the vigilance of effort

and quality of customer care that they committed to in the RFP process.

Market share estimates were determined from the experiences of others who launched similar networks, in similarly under-served markets. Market share for transport was calculated as a percent of the high-potential addressable market, as described in assumption 3. The market share capture for retail commercial services was calculated as a percent of total market as retail customers are motivated to change service provider for cost savings.

	Year	2010	2011	3 2012	2013	5 2014	6 2015	7 2016	8 2017	9 2018	10 2019	11 2020	12 2021
Market share													
Commercial Retail		0.0%	0.1%	0.4%	1.0%	2.0%	4.0%	6.0%	8.0%	10.0%	11.0%	12.0%	13%
Commercial Transp	ort	0.0%	0.5%	1.0%	3.0%	5.0%	7.0%	9.0%	10.0%	11.0%	12.0%	13.0%	14%

The precise category breakdown of the capital plant in service is not known at this time. The depreciation schedule we used for the financial proforma is based upon an average life of 12 years. The actual depreciation schedule by class of asset is as follows:

Depreciation Schedules	Months	Years
Aerial Fiber	180	15
Underground Fiber	240	20
Electronics	84	7
Shelters and Generators	120	10

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It is important to note that OpenCape, with the assistance of Robert Picchi, Certified Management Consultant of the Blue Ridge Advisory Services Group, developed twelve year projections within a very detailed financial analysis. This analysis reveals a very favorable outlook for OpenCape. We would like to have provided this analysis in the first round, but were constrained by the requirements for grant submissions to only 5 years of projections. We look forward to providing our complete analysis.

Attachment B – Middle Mile Service Offerings OpenCape

OpenCape anticipates that the licensed network operator (RCN Metro) will generate revenues adequate to operate, maintain, and upgrade the transport network and to generate a profit on an ongoing basis. It is anticipated it will do so by selling capacity on the network to what are known as "Access Entities".

A variety of Access Entities are intended to lease network facilities and services from the operator and offer end user products. Access entities take many shapes and forms, including institutional bulk purchasers, municipal users, nonprofit consortia, private companies, and regional aggregation entities. None of these entities alone could cost justify the investment in a backhaul network in the region, but OpenCape anticipates that these organizations would, once the network is established, purchase prorated transport capacity and run access businesses upon it.

The rate table for services is below:

Service Offering	Distance Band or Point to Point	Minimum Peak Load Network Band width Capacity (Mbps)	Monthly /Yearly Pricing	Other
Switched	Dedicated point	10 - 1000	\$918 -	
Ethernet	to point – on Cape Cod		\$5130/mo	
Point to Point	Dedicated point	50 - 1000	\$1721 -	
Ethernet	to point – on		\$6464/mo	
	Cape Cod			
SONET	Dedicated Point	45 - 2488	\$1500 -	DS3 – OC12
(A) (A) (A)	to Point	40 Professional 19 April 17 (19 (19 (19 (19 (19 (19 (19 (19 (19 (19	\$23438/mo	U - 198 - 199 - 19
Wavelength	Dedicated point	1000 - 10000	\$6000 -	1, 2.5 & 10Gig
	to point – on		\$15000/mo	
	Cape Cod			
Internet Access	Dedicated –	10 -1000	\$737 -	Peering at 1
	from Cape Cod		\$12792/mo	Summer St.,
STATE WAS SERVICE	to Peering Point	0.10 Mor 1900-000	A TR NO WHO WHO	Boston, Ma
Dark Fiber	Point to Point	Determined by user	\$200 per fiber mile	Dark fiber IRU
Colocation	N/A	N/A	\$22/sqft/mo	Also ½ & Full cabinets

Because OpenCape is an open access network, it will be made available to any Access Entity that meets the technical requirements, can pay the rates, and intends to use the network for legal purposes. OpenCape Corporation has required, and RCN Metro Optical Networks has accepted two principles with regard to pricing on the network:

- 1. There shall be no distance or loop charges on the network. Customers will pay a port charge and a capacity charge.
- 2. There shall be a three tiered pricing model whereby non-profits shall receive a 15% discount on retail, and government entities shall receive a 25% discount.

The OpenCape middle mile network path has been selected in part to ensure that it reaches the broadest possible number of tenants. In many instances, the path selection will result in the fiber passing public safety, town administration, school buildings, and libraries. OpenCape has already committed to providing service to all of twelve emergency shelters in the region. It has also committed to connecting at least 30 of the CLAMS library consortium libraries in the region. Additional connections will be made in each town based on a prioritized list of buildings provided by each town to OpenCape Corporation. OpenCape will attempt to make at least three connections in each town based on those lists and other factors.

OpenCape includes creation of a regional wide area network (WAN) for towns, school districts, and libraries. OpenCape also intends to create within the regional collocation center a government data center for county, municipal, and education entities to develop a regional umbrella services model of greater impact and efficiency. OpenCape intends to build a virtual machine (VM) server and storage area network (SAN) in the regional collocation/data center where municipalities and school districts will be able to install any number of applications they may wish to place under a regional service umbrella such as geographic information systems (GIS), learning management systems (LMS), assessor databases, web services, and other applications well suited to a regional services model. OpenCape Corporation intends to partner with the Barnstable County Commission in this effort.

Network Design and Implementation Plan Certification (to be complete for projects requesting more than \$1 million in federal assistance)

U.S. Department of Agriculture and U.S. Department of Commerce BIP and BTOP Program

We the undersigned, certify that the proposed broadband system will work as described in the System Design and Network Diagram sections, and can deliver the proposed services outlined in the Service Offerings Section. Moreover, the system, as designed, can meet the proposed build-out timeframe based on the resources designated in Project Viability Section, and will be substantially complete in two years, and complete within three years.

8/11/09 (Date)

(Authorized Representative's Signature)

Dan Gallagher

Name:

President

Title:

8/12/09 (Date) Edward A Wolch PE

(Certifying Engineer's Signature)

Edward A. Welch, P.E., PLS

Name:

Senior Project Manager -

Siena Engineering Group, Inc.

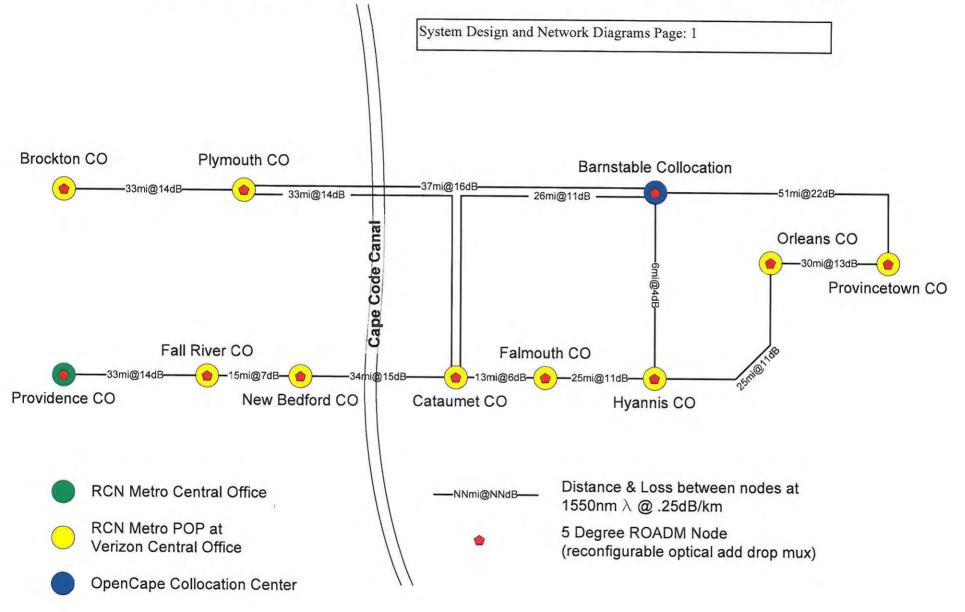


Attachments:

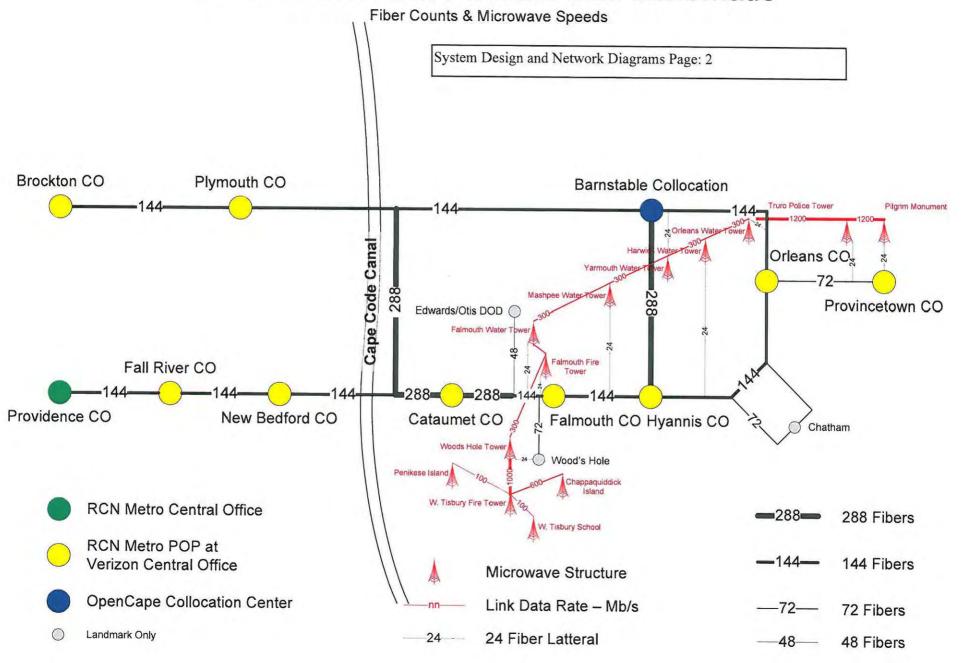
System Design and Network Diagrams Pages: 1 - 4

Schedule B Service Offerings: Pages 5 - 6 Build-out timeframe summary: Page 7 Build-out timeframe detail: Pages: 8-12

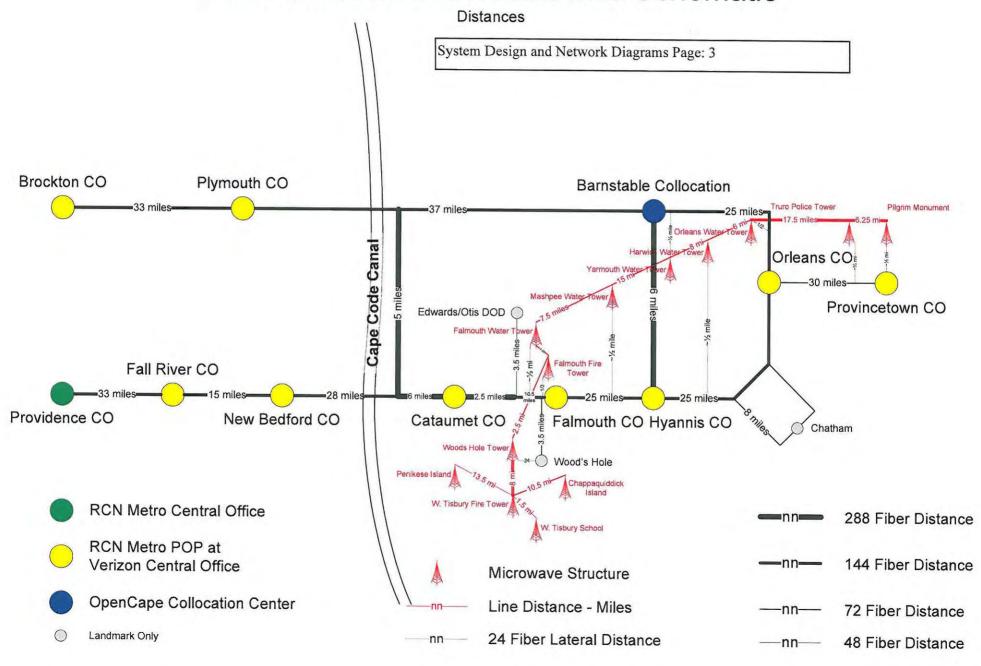
OpenCape Proposed 44 λ DWDM ROADM Network



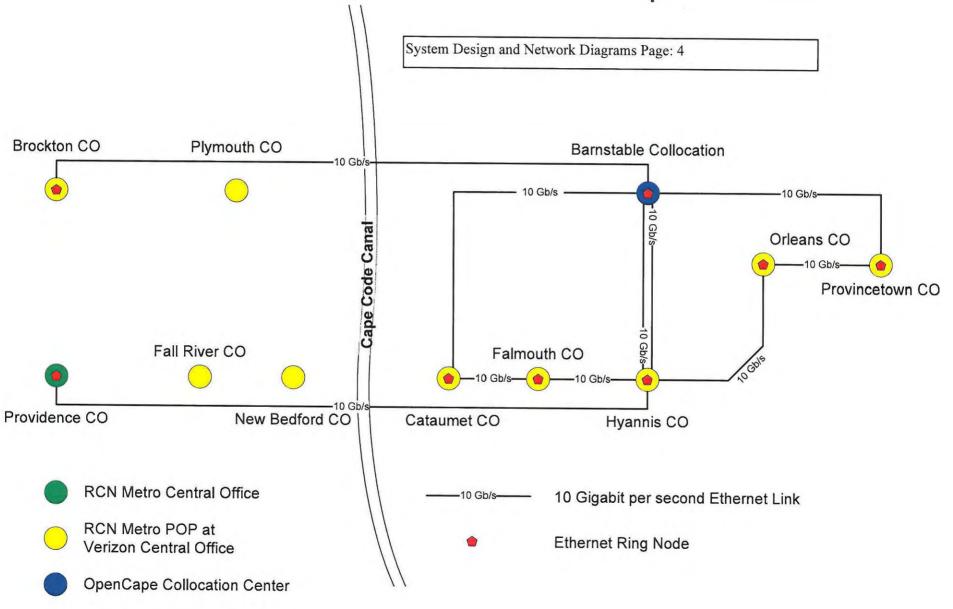
OpenCape Proposed Fiber & Microwave Middle Mile Schematic



OpenCape Proposed Fiber & Microwave Middle Mile Schematic



OpenCape Proposed Ethernet Transport Network



Attachement B – Middle Mile Service Offerings OpenCape

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Service Offering	Distance Band or Point to Point	Minimum Peak Load Network Band width Capacity (Mbps)	Monthly /Yearly Pricing	Other
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SONET	Dedicated Point to Point	45 – 2488	\$1500 - \$23438	DS3 – OC12
Wavelength	Dedicated point to point – on Cape Cod	1000 - 10000	\$6000 - \$15000/mo	1, 2.5 & 10Gig
Internet Access	Dedicated – from Cape Cod to Peering Point	10 -1000	\$737 - \$12792	Peering at 1 Summer St., Boston, Ma
Dark Fiber	Point to Point	Determined by user	\$200 per fiber mile	Dark fiber IRU
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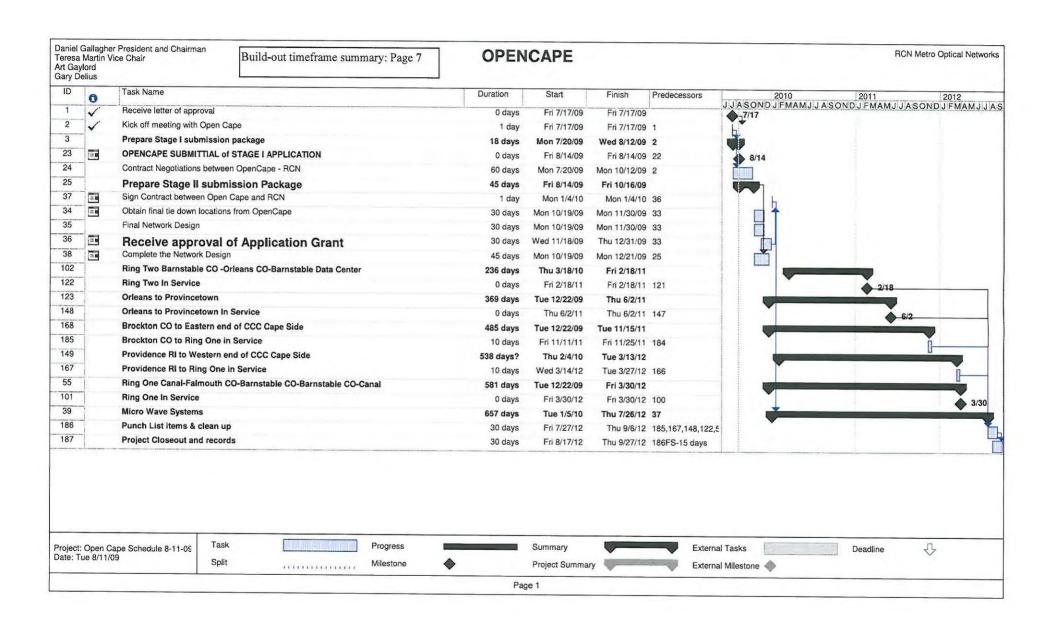
Schedule B Service Offerings: Page: 5

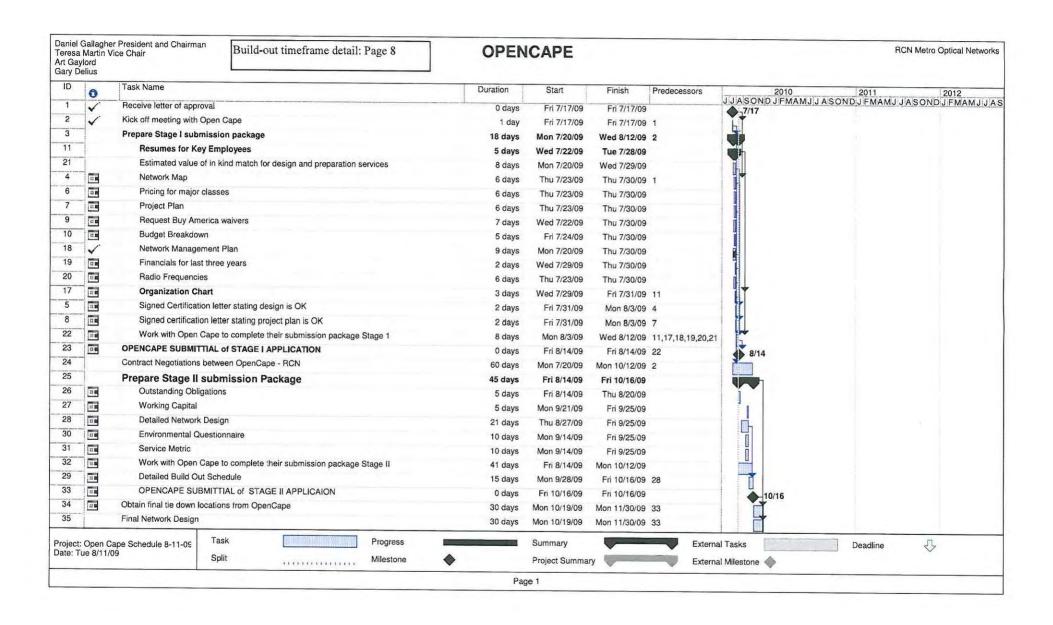
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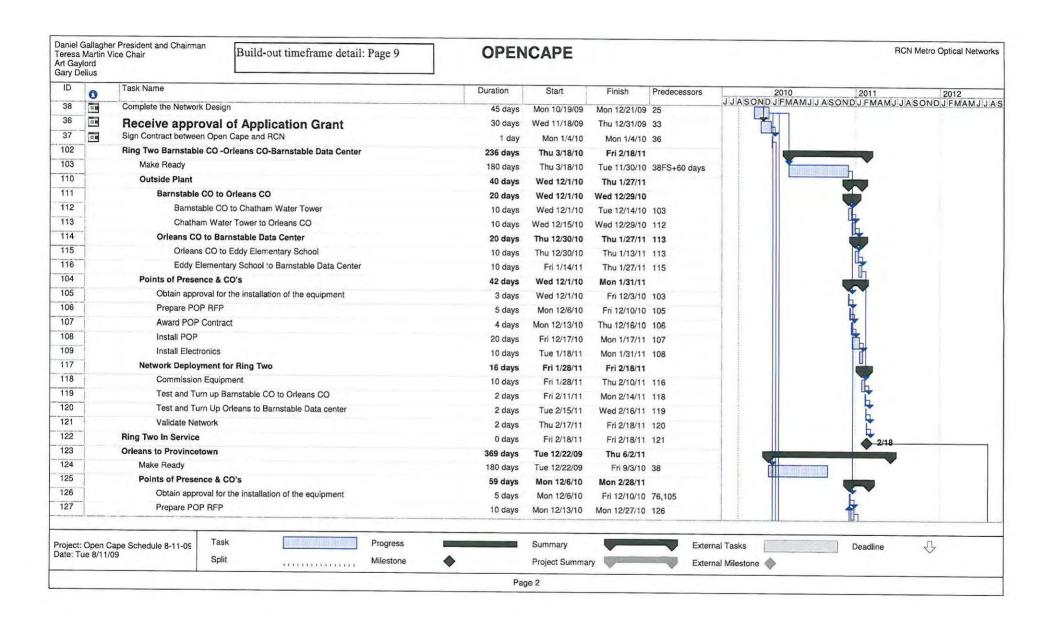
- 1. There shall be no distance or loop charges on the network. Customers will pay a port charge and a capacity charge.
- 2. There shall be a three tiered pricing model whereby non-profits shall receive a discount on retail, and government entities shall receive a further discount.

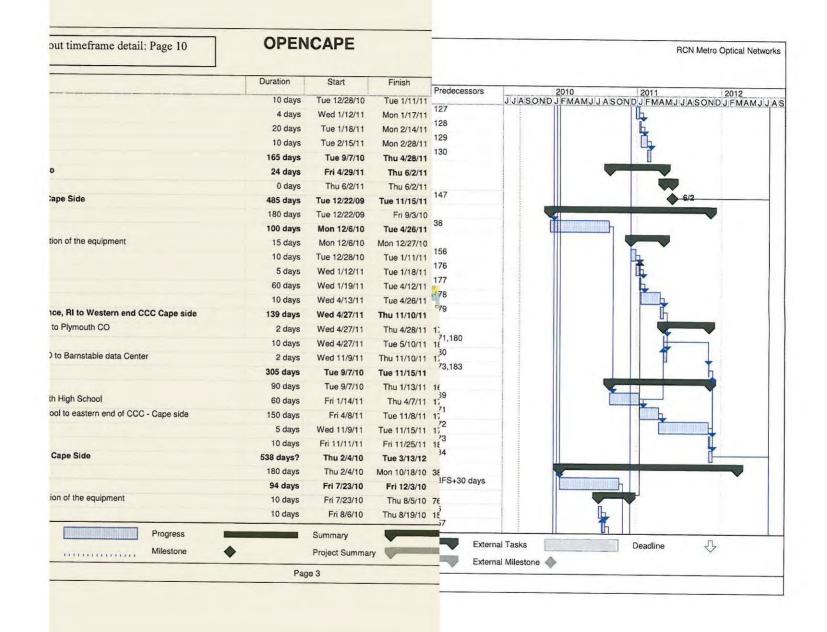
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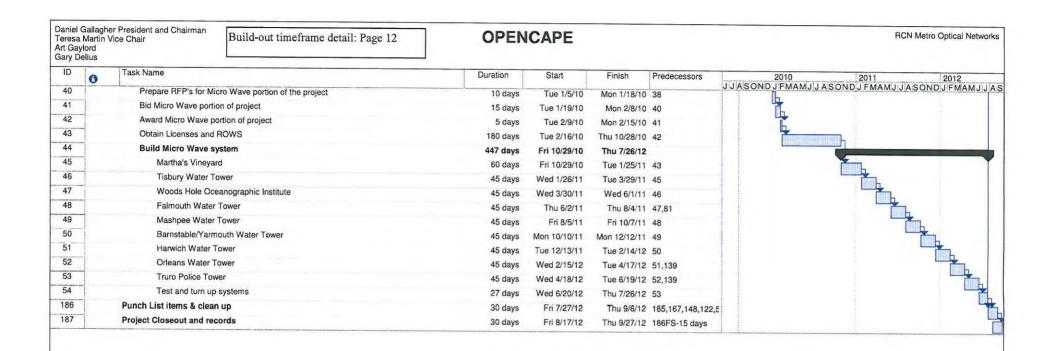








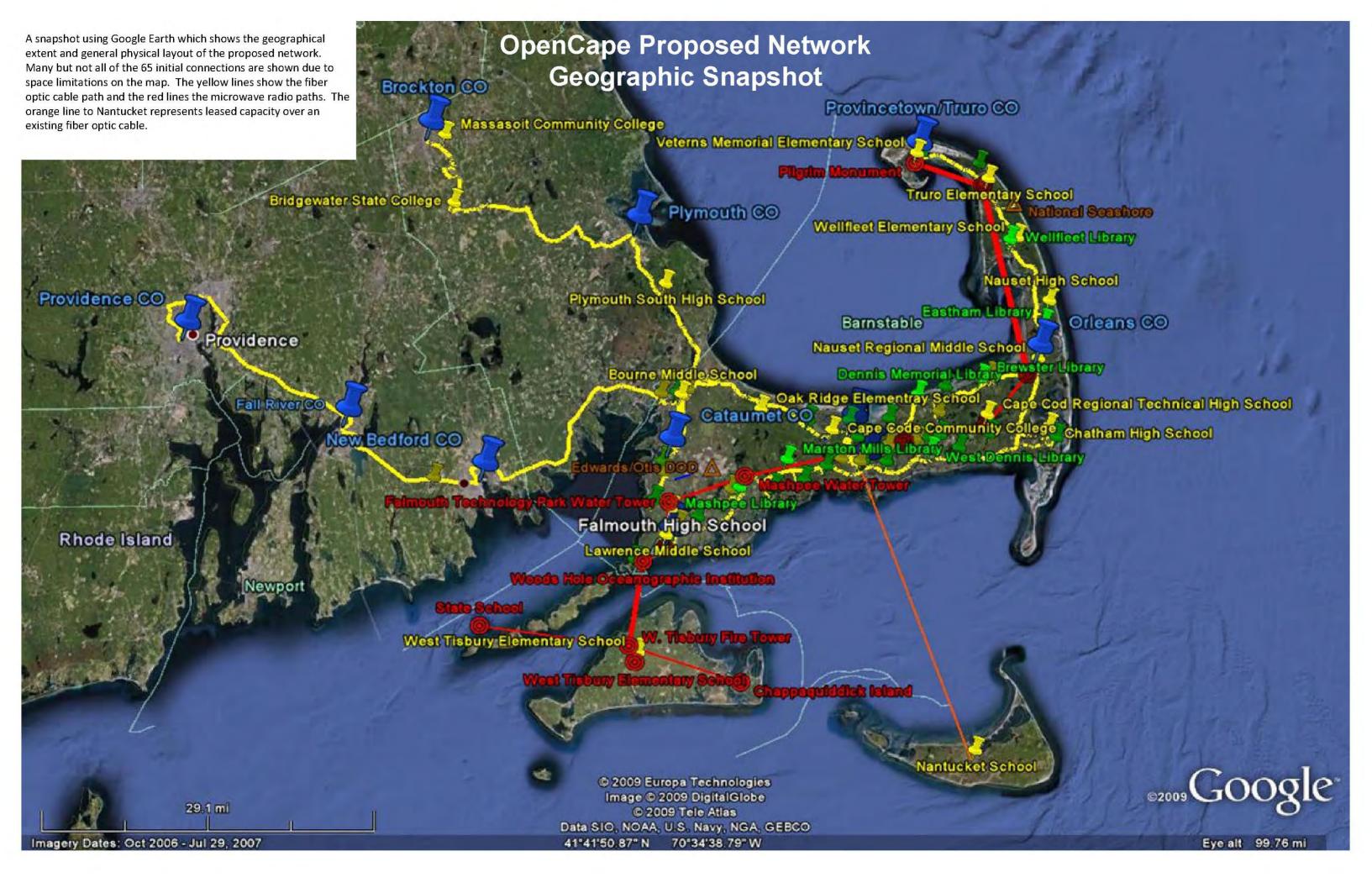
Daniel Gallagher President and Chairman **OPENCAPE** RCN Metro Optical Networks Teresa Martin Vice Chair Build-out timeframe detail: Page 11 Art Gaylord Gary Delius ID Task Name Duration Start 2010 2011 2012 JJASONDJEMAMJJASONDJEMAMJJAS Finish Predecessors 159 Award POP Contract 4 days Fri 8/20/10 Wed 8/25/10 158 160 Install POP 60 days Thu 8/26/10 Thu 11/18/10 159 161 Install Electronics 10 days Fri 11/19/10 Fri 12/3/10 160 151 **Outside Plant** 305 days Tue 10/19/10 Thu 12/29/11 152 Providence RI to New Bedford CO 90 days Tue 10/19/10 Thu 2/24/11 150 153 New Bedford CO to Mass Maritime Academy 60 days Fri 2/25/11 Thu 5/19/11 152 154 Mass Maritime Academy to western end CCC Cape Side 150 days Fri 5/20/11 Wed 12/21/11 153 155 Splice into Ring One 5 days Thu 12/22/11 Thu 12/29/11 154 162 Network Deployment for Providence, RI to Western end CCC Cape side 325 days? Mon 12/6/10 Tue 3/13/12 163 Commission Equipment 10 days Mon 12/6/10 Fri 12/17/10 161 164 Test and Turn up Providence, RI to New Bedford 2 days Mon 12/20/10 Tue 12/21/10 163 165 Test and Turn Up New Bedford to Mass Maritime Academy 2 days Fri 12/30/11 Mon 1/2/12 164.154.155 166 Test and turn up Mass Maritime Academy to Falmouth CO 1 day? Tue 3/13/12 Tue 3/13/12 165,97,155 167 Providence RI to Ring One in Service Wed 3/14/12 10 days Tue 3/27/12 166 55 Ring One Canal-Falmouth CO-Barnstable CO-Barnstable CO-Canal Tue 12/22/09 Fri 3/30/12 581 days 69 Points of Presence & CO's 149 days Tue 12/22/09 Thu 7/22/10 70 Determine POP's 20 days Tue 12/22/09 Wed 1/20/10 38 71 ISPE due diligence for each site 26 days Thu 1/21/10 Thu 2/25/10 70 72 Prepare ISPE design for each POP 26 days Fri 2/26/10 Fri 4/2/10 71 73 Obtain approval for the installation of the equipment 3 days Mon 4/5/10 Wed 4/7/10 72 74 Prepare POP RFP 10 days Thu 4/8/10 Wed 4/21/10 73 75 Award POP Contract 4 days Thu 4/22/10 Tue 4/27/10 74 76 Install POP 60 days Wed 4/28/10 Thu 7/22/10 75 56 Make Ready 280 days Tue 12/22/09 Thu 1/27/11 38 57 **Barnstable Collocation Facility** 412 days Tue 12/22/09 Wed 8/3/11 77 **OSP Fiber Routes** 275 days Fri 1/28/11 Thu 2/23/12 95 Network Deployment for Ring One 16 days Fri 2/24/12 Fri 3/16/12 100 Validate Network 10 days Mon 3/19/12 Fri 3/30/12 99 3/30 101 Ring One In Service 0 days Fri 3/30/12 Fri 3/30/12 100 39 Micro Wave Systems 657 days Tue 1/5/10 Thu 7/26/12 37 Task Project: Open Cape Schedule 8-11-09 Progress Summary 了 External Tasks Deadline Date: Tue 8/11/09 Split Milestone Project Summary External Milestone Page 4



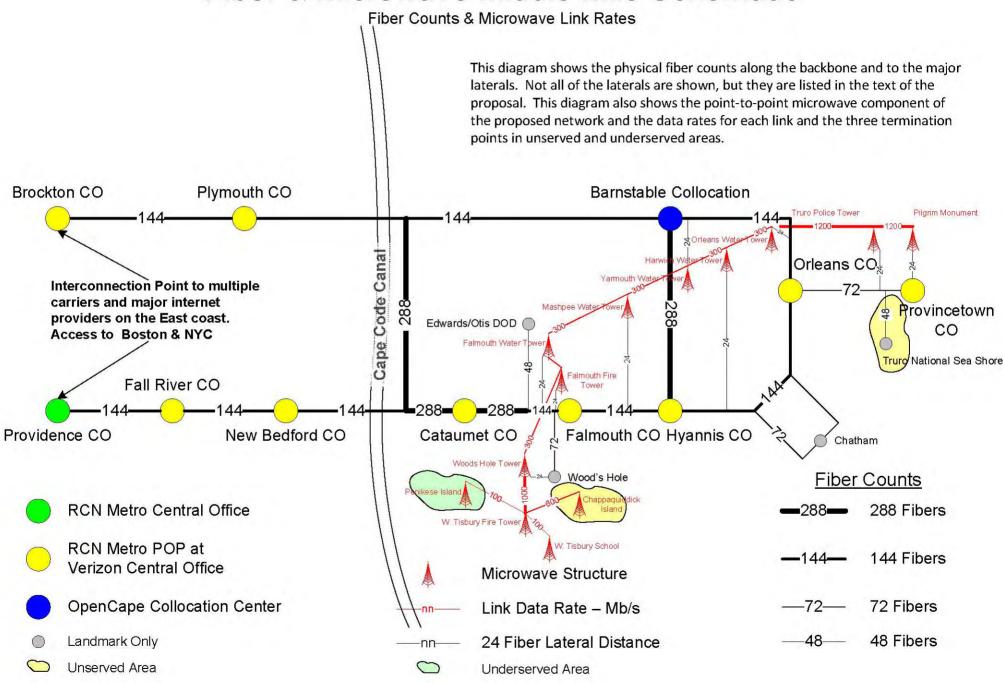
Project: Open Cape Schedule 8-11-05
Date: Tue 8/11/09

Task
Split

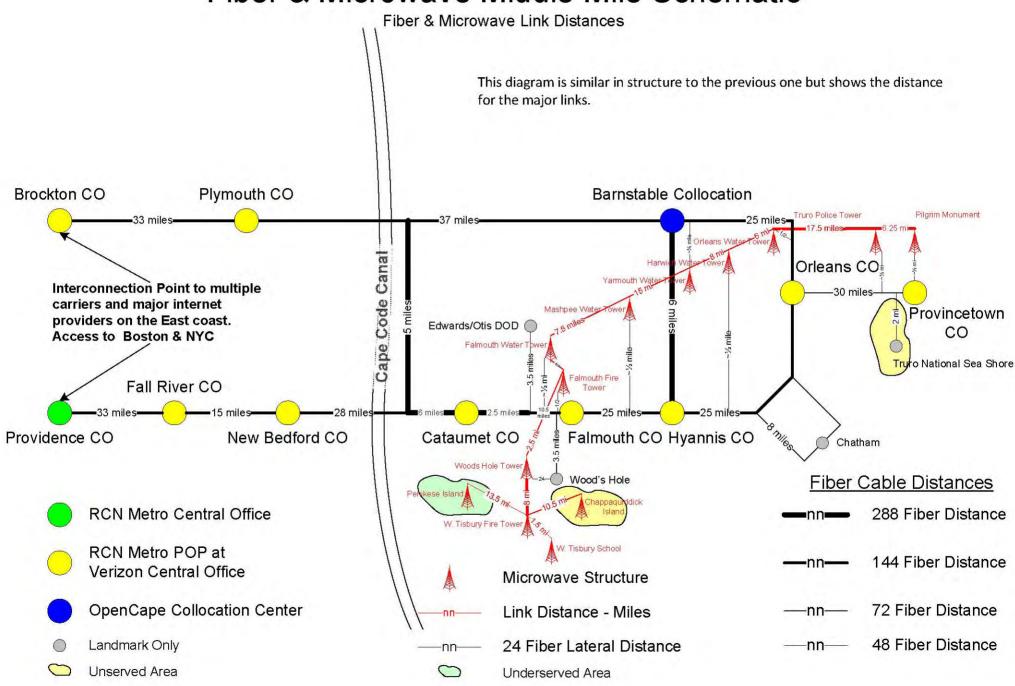
Progress
Summary
External Tasks
Deadline
Project Summary
Project Summary
Project Summary
Project Summary
Project Summary
Page 5



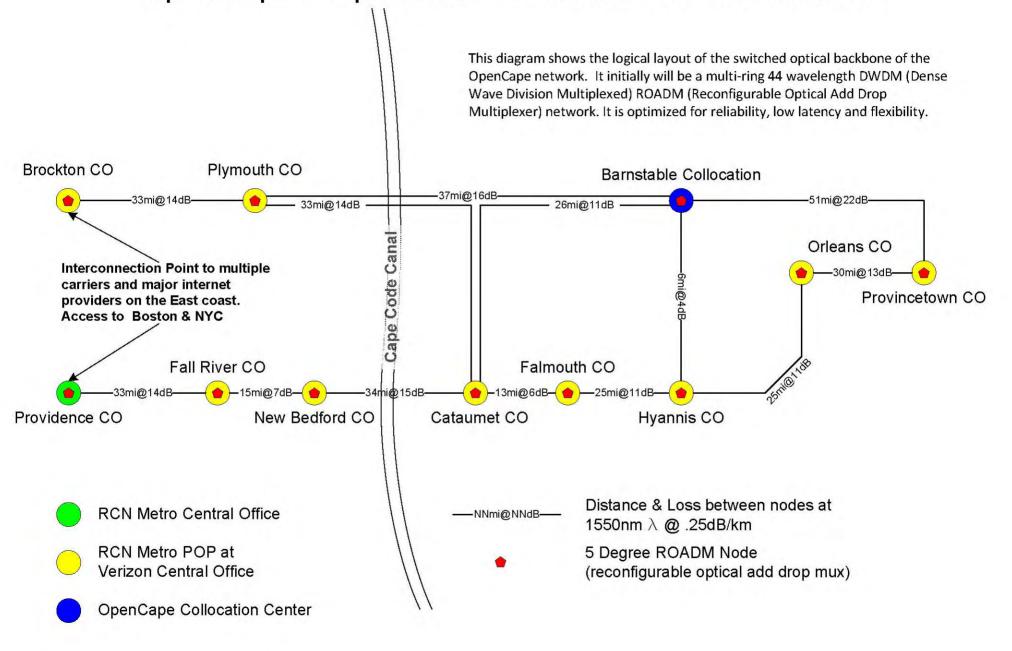
OpenCape Proposed Fiber & Microwave Middle Mile Schematic



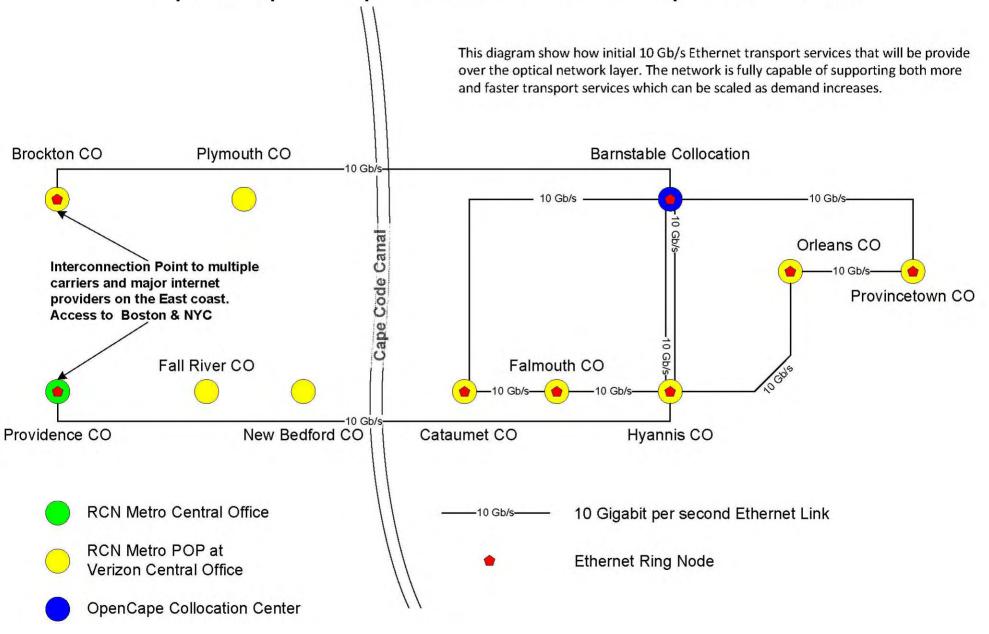
OpenCape Proposed Fiber & Microwave Middle Mile Schematic



OpenCape Proposed 44 λ DWDM ROADM Network



OpenCape Proposed Ethernet Transport Network



Attachment C – Competitor Table – Middle Mile OpenCape

Service Area	Middle Mile Services Provider	Technology Platform	Service Tier	Point to Point	Minimum Peak Load Network Bandwidth Capacity	Pricing	Other Comments
Cape Cod & the Island	Verizon	Ethernet	Entry Level	Yes	10Mbps	\$4120	Average Price for 1 yr contract
Cape Cod & the Island	Verizon	Ethernet	Entry Level	Yes	50Mbps	\$5606	Average Price for 1 yr contract
Cape Cod & the Island	Verizon	Ethernet	Entry Level	Yes	100Mbps	\$7041	Average Price for 1 yr contract
Cape Cod & the Island	Verizon	Gig Ethernet	Highest Level	Yes	150Mbps	\$7599	Average Price for 1 yr contract
Cape Cod & the Island	Verizon	Gig Ethernet	Highest Level	Yes	600Mbps	\$13548	Average Price for 1 yr contract
Cape Cod & the Island	Verizon	Gig Ethernet	Highest Level	Yes	1000Mbps	\$16044	Average Price for 1 yr contract
Cape Cod & the Island	Verizon	SONET	Other Plans	Yes	DS3	\$3870	Average Price for 1 yr contract
Cape Cod & the Island	Verizon	SONET	Other Plans	Yes	OC3	\$8554	Average Price for 1 yr contract
Cape Cod & the Island	Verizon	SONET	Other Plans	Yes	OC12	\$22370	Average Price for 1 yr contract

Management Team Resumes

The OpenCape Corporation leadership team consists of four seasoned professionals who offer a broad range of experience in technology, business, and public service.

<u>Dan Gallagher, President/Chair.</u> Dan is the CIO of Cape Cod Community College, and is a retired Naval Intelligence Officer. He has more than 20 years of experience providing vision, leadership, planning, and management of information technologies in analytical, information processing, strategic planning, and educational organizations.

Art Gaylord, Vice Chair. Art is the Director of Computer Information Services, Woods Hole Oceanographic Institution where he is responsible for all non-administrative computing, networking and telecommunications services. He has been actively involved with the Internet for more than 25 years and computing technology and operations for more than 40 years.

<u>Teresa Martin, Vice Chair/Clerk.</u> Teresa works with organizations to compete and build business in the digital age. She is the former CEO of the Cape Cod Technology Council and prior to that was a CEO/COO at several emerging technology companies. She has founded multiple startups in the innovation sector on both East and West coasts.

<u>Gary Delius, Treasurer</u>. Gary is the IT Director for the town of Truro and has spent the last 27 years in hardware and software development for international companies. As director of EMS for a 14-county governmental co-operative in Tennessee, he oversaw the design, specification, and deployment of a multi-gigahertz, fully redundant microwave communication system located on mountain tops throughout eastern Tennessee.

OpenCape Corporation has selected RCN Metro Optical Networks to design and build the network, as well as operate the network when it is complete. RCN has engaged many of its senior staff in business, project management, construction and operation to aid in preparation for this grant. The primary leadership team consists of:

Maura Mahoney, Vice President - Sales & Marketing Marc Webb, Director, Corporate Development and Strategic Planning Bob Bartelmes, Sr. Project Manager Scott Richardson, Manager – OSP Construction New England Dave Bigelow - Sr. Mgr. Network Planning & Technology

Daniel J. Gallagher

Exceptional leader and manager with over 20 years of experience devising and implementing innovative concepts in support of institutional goals. A systematic problem solver with extensive technical knowledge. A highly skilled communicator who organizes resources to achieve objectives. Recruits collaborators, builds teams, develops a shared vision, and motivates action.

Professional Experience

Chief Information Officer, Cape Cod Community College

2005-Present

Responsible for all aspects of technology planning, policy, implementation and support of 7000 users, nearly 1000 client computers, and 50 servers within a \$3 million budget. Lead and manage twenty-nine developers, network engineers, and technical support personnel. Completely renovated the nine building main campus network infrastructure with new fiber optics and Cisco routing and switching. Fully integrated the Hyannis campus into the main campus data and voice architecture using point-to-point microwave between the two campuses. Created wireless network access throughout the campuses. Created multi-terabyte production and disaster recovery storage systems with block level replication. Increased Internet bandwidth and introduced shaping and load balancing technologies for more efficient utilization.

President and Chairman, OpenCape Corporation

2006-Present

Pivotal role in the creation of this grass roots non-profit to create the telecommunications infrastructure of Southeast Massachusetts that will serve the region for the next 50 years.

Technology Manager, Dover, Sherborn, and Dover-Sherborn Regional Schools

1999-2005

Responsible for all aspects of technology services to three high performing K-12 school districts. Successful oversight of the data, voice and video networks in three newly constructed school buildings. Managed related capital budgets for local building committees. Coordinated all RFP development, vendor selection, and contract execution. Created a wide-area network to connect all school buildings within and among districts.

Intelligence Officer, Strategic Studies Group, Newport, RI

1996-1999

Office of Naval Intelligence liaison to the Chief of Naval Operation's Strategic Study Group. Provided direct access to the U.S. Intelligence Community and technical support to the U.S. Navy's think tank for senior officers. U.S. Navy retirement from this position after attaining the rank of Commander.

Intelligence Officer, USS NASSAU, Norfolk, VA

1993-1996

Directly managed approximately 100 intelligence collectors and analysts, researchers, and technicians. Responsible for all aspects of technical equipment installation and operation from ship-wide local area network to SHF satellite communications to national authorities. Managed and supervised all aspects of intelligence collection and reporting to the National Security Agency (NSA) and other national consumers.

Branch Chief, Defense Intelligence Agency (DIA), Washington, DC

1990-1993

Head of a national-level intelligence analysis and production organization of 80 personnel. Supervised the production of analytical documents for senior government leaders. Principal author and coordinator of a National Intelligence Estimate (NIE) under the auspices of the Central Intelligence Agency.

Positions prior to 1990 included: Intelligence analyst for the Director of Naval Intelligence (1986-1989); Intelligence Officer aboard the USS Dwight D. Eisenhower (CVN-69) (1983-1986); Helicopter flight crew chief – (1975-1979)

Education and Certification

BA, Boston State College, 1982 **MS**, Defense Intelligence College, 1990 Massachusetts Teaching Certification Mandarin Chinese Language School, Middlebury College, 1982 Microsoft Certified Systems Engineer (MCSE), 1999

Arthur Gaylord

Arthur Gaylord is the Director of Computer and Information Services at the Woods Hole Oceanographic Institution (WHOI). He is responsible for all non-administrative computing, networking and telecommunications services including a mixed fiber optic and wireless network serving six major private and federal government organizations in the Woods Hole area. He manages a \$6M/year budget and 36 staff members. Prior to taking this position in 1999, he developed and directed computing facilities at the University of Massachusetts Amherst (17 years) and University of Illinois (4 years). He has over 40 years of experience in information technology with expertise in collaborative and distributed computing, scientific computing, networking and voice over IP. He has led several large research projects funded by state and federal government agencies as well as major corporations including Digital Equipment, HP, IBM, GTE and Hughes. Mr, Gaylord has been a speaker at numerous conferences worldwide and has publications in both computer science and chemistry. He holds a BA and MA from Wesleyan University and an MS from the University of California, Berkeley.

Relevant Networking Achievements:

Installed the first local area network at UMass Amherst for the Computer Science Dept. Installed the first DoD sponsored Internet connection and then the first pubic Internet connection at UMass Amherst. Allocated and managed the UMass IP address space. Installed the first Internet 2 connection at Woods Hole Oceanographic Institution Arranged a public/private partnership for networks between WHOI and Falmouth.

Network and IT related committees

NEARnet Technical Planning Committee, helped to get higher speed Internet services out of the Boston area and to western Massachusetts

Board of Regents Network Planning Committee for Mass Higher Education System

UMass Provost's Network Planning and Implementation Committee

UMass President's System-wide Information Technology Task Force

Five Colleges Information Technology Task Force

WHOI Information Technology Advisory Committee and Cyberinfrastructure Committee Internet 2 SIP.edu and Presence and Integrated Communications Working Groups

Significant Projects:

Project Pilgrim - \$11M - 1989-95. Originator and Director: Research and development of advanced distributed computing environments. Jointly funded by state and private industry. UMass Amherst Student Information System replacement - \$10M - 1995 - 99. System architect and technical lead; design through initial implementation.

Shutesbury Elementary School - \$4.5M - 1988-94 – Chaired building committee from design phase through completion.

WHOI network replacement - \$4M - 1999-2001. –Directed the overall project, coordinating internal staff and private contractors.

WHOI phone system replacement - \$2.5M - 2004-08 -Designed a VoIP phone from open source components and directed its implementation. NASA/Hughes EOS project - 1994-1998 - Consultant on distributed computing, network design and security. No direct financial responsibility but had significant input on this \$1B project.

TERESA A. MARTIN

Professional Summary: 25+ years experience in both startup and Fortune 500 environments. Lead organizations through transition and growth by creating vision, building teams that can execute extremely well, uniting diverse groups to work on a common goal, building products in categories that never existed before. Additional strengths: branding, internal and external outreach, and strategic messaging.

Education:

EdM, concentration in Interactive Technology, Harvard University, Cambridge MA, 1987 BS, Journalism, magna cum laude, Boston University, Boston, MA, 1983

Board Service & Elected Office (Current):

Elected Official: Eastham Delegate to the Barnstable County Assembly of Delegates Member and Officer, Board of Directors, Open Cape Corporation, Member Board of Directors, YMCA Cape Cod

Professional Experience:

<u>Present</u> - Provide strategy, coalition building, and related services to a variety of organizations. Sample client: in second year of working with a regional bank group's senior management team, playing role of fractional CTO helping Board and senior team make key strategic technology decisions and investment.

2004- 2008: CEO, Cape Cod Technology Council, Inc. West Barnstable, MA

High visibility public leadership role. Key projects - Unwired Village (public broadband access in partnership with local chambers of commerce), OpenCape (launch partner), JrTech (STEM education grades 4-12 serving 400+ students, partnerships with schools and community-based STEM organizations).

2002-2003: CEO, Borderless Games, Inc., Forestdale, MA

Led 5-person expert team to launch company, raise capital, develop biz plan for massively multiplayer online game company. An MMOG is entertainment content with paid subscription model. It requires an extremely robust network and database infrastructure to support 3D images and transactions.

2000-2002: COO/VP of Strategic Planning, MerlinOne, Inc., Quincy, MA

Transitional leadership helping founder develop professional team for digital asset management company. Customer base of 70+ major corporations including The New York Times Co, MSNBC, Harvard University and Pfizer, archived tens of millions of image and other bandwidth intense objects for remote and local access.

1996-2000: CEO and Co-Founder, Project Cool, Inc., Palo Alto, CA

Highly public leadership role in emerging web industry. Founded and took company from startup through growth to successful acquisition in less than 5 years.

1993-1996: Senior Manger & Editor/Internal Development Consultant, Knight-Ridder, Inc.

Gary Delius

Gary Delius is the Information Technology Director for the Town of Truro, MA where he has served for the past 5 years, previously holding the same position in Provincetown, MA. In both Towns he started the Information Technology departments bringing server based networks, email, web sites, GIS for land use decisions and modern municipal management and accounting software.

From 1991 to 1999 Mr. Delius worked for Lexitech, a multi-media production company which specialized in developing and deploying kiosk based, public access information systems for state, local, and the federal government. While working at Lexitech Mr. Delius managed development and deployment of Department of Labor job search systems known as ALIX for New Jersey, Connecticut, Tennessee and city information Kiosk systems for San Diego, Newark, New York and Boston and teamed with other key partners for the U.S. Postal Service Kiosk self-service system.

During the late 1980's Mr. Delius was deeply involved with the rapidly emerging computer graphics market as the Marketing Director for Cadkey, a 3-dimensional Computer Aided Design (CAD) software used in mechanical design and Computer Aided Manufacturing (CAM). From 1981 to 1984 Mr. Delius was Vice President for Technical Services for Bateson, Beeman and Saelens, Marketing and Advertising. From 1979 to 1981 Mr. Delius was the government affairs manager for the 12 northeastern states for Upjohn Healthcare Services.

From 1974 to 1976 Mr. Delius was the Executive Director for the East Tennessee Emergency Medical Service Coop, a regional government entity connected to the regional Health System Planning agency. In this role Mr. Delius oversaw the writing and award of a 2.5 million dollar HEW Grant for the design and implementation of a 14 county emergency medical service delivery system involving a regional radio network, some 400 ambulances and 37 hospital emergency rooms. A major part of the system was the implementation of a regional radio network based on four mountain top towers containing transceivers for low-band voice communications and high band data radios to transmit patient telemetry direct to the hospital while an emergency vehicle was in route.

Mr. Delius has been active in local community service by serving on the Provincetown Board of Health from 1999 till 2000 when he was hired by the Town. He served on the Provincetown Finance Committee from 2004 till 2008, serving as its Chairman from 2006 through 2008.

Mr. Delius and his partner own a Cottage colony in Provincetown which specializes in people who travel with their pets.

Education. From 1977 to 1979, Mr. Delius completed his Master's degree in Public Health with an emphasis in planning and administration. As a health care systems planner, Mr. Delius received a congressional internship and worked for the House Ways and Means Committee, Subcommittee on Health. Mr Delius received a BS in Business Administration with a major in Transportation Management in 1971 from the University of Tennessee and returned in 1976 to earn a Masters degree in Public Health.

Maura Mahoney - Vice President - Sales & Marketing

Maura Mahoney is Vice President of Sales & Marketing. Ms. Mahoney joined RCN Metro Optical Networks in May 2002 where she is responsible for attainment of revenue targets, customer relationship management, marketing communications, product management, new product development as well as market development for the business unit. Ms. Mahoney has over 19 years in the communications industry holding Sales & Marketing roles of increasing responsibility with companies such as Bell Atlantic and its various predecessors.

Ms. Mahoney holds a B.S. degree in Finance from Bentley College, Waltham and an M.B.A. from Boston University, Boston.

Marc Webb

Director, Corporate Development and Strategic Planning

Marc Webb is Director of Corporate Development and Strategic Planning at RCN Metro, he leads business development activities and carries a wide range of responsibilities, including network expansion, business partnerships, planning, and M&A type activities. He brings an effective set of experiences to this work with ten plus years in developing private telecommunications infrastructure and twenty plus years in public sector planning / development activities.

Mr. Webb holds a Bachelor of Business Administration from Northeastern University and a Master of Community Planning from the University of Rhode Island.

DAVID BIGELOW

SUMMARY OF QUALIFICATIONS

- Managed key departments at RCN Metro/NEON that directly contributed to the company's top and bottom line.
- 24 years of telecommunications experience.
- SONET, DWDM, & Ethernet network architecture and solutions expertise.
- Vendor management.

PROFESSIONAL EXPERIENCE

Aug 2005 – Present

RCN Metro/NEON Communications

Sr. Mgr. Network Architecture & Solutions

In this role I work for the VP of Engineering and am responsible for defining the transport network architecture and insuring that all custom solutions complement the network architecture. I am directly responsible for all network expansion designs, complex pre-sale network solutions, and technology direction. I advise Sales, Marketing, Product Development, and Strategic Planning on technology and applications.

Jun 2002 – Aug 2005

Globix Corp. /NEON Communications

Sr. Mgr. Provisioning

Responsible for the circuit design, documentation, testing, and activation of all new circuits on the network. This required tracking access and transport capacity and initiating capacity augments in a timely manner to insure compliance with committed installation intervals. I assumed responsibility for the Provisioning department amidst pre-bankruptcy turnoil and managed the department through bankruptcy. In this period I significantly improved the efficiency of the network by grooming circuits though a central switch core, thus freeing up network equipment for reuse as resources for growth. Directly responsible for meeting monthly installation revenue.

Apr 1999 - Jun 2002

NEON Communications

Sr. Mgr. Field Operations

Built and managed, from the ground up, the management and technician work force to cover a geographic area from Portland, ME to Washington, DC.

Aug 1988 – Apr 1999

MCI Communications

Sr. Field Engineer - New England TSO

Responsible for the maintenance, repair, and restoration of all fiber optic systems and fiber cable in my region.

EDUCATION

2007 – Present Northeastern University, Boston, MA Electronic Engineering Technology program

2003 – 2006 Mass Bay Community College, Wellesley, MA, AS Business Administration

1984 Unites States Air Force, San Antonio, TX, Wideband Communications Equipment Specialist

ROBERT BARTHELMES, SR.



PROJECT MANAGEMENT EXPERIENCE

TELECOMMUNICATIONS (9 Years):

- Responsible for Design and Construction of Point of Presence sites.
- Implementation of Customer Orders from after the sale through the turn up of their circuits.
- Coordination of the site design including Structural, Architectural, MEP and DC Power design.
- DC Power Upgrades in existing Point of Presence Sites.
- Design and Installation of Regeneration Shelters.
- Responsible for the management of Infrastructure Projects
 - o Collocation site @ 1 Summer St Boston, MA
 - Construction of the Burlington, VT CO including fiber builds to Manchester NH and Brattleboro VT
 - o Collocation Site 80 Merritt Blvd Trumbull, CTC
 - o Infinera Core Overbuild Diverse routes from Boston, MA to New York City

DESIGN BUILD: (12 years):

- Responsible for project presentation, owner's contract, estimates, scheduling, purchasing, construction and project close out.
- Collaborated with design to create a project that would meet and/or exceed the client's expectations.
- Scheduled projects to ensure completion within allotted time frame and within the budget.

PUBLIC/PRIVATE PROJECTS: (27 years):

- Supervised projects from estimate through close out.
- Promoted company to clients and architects for placement on bid lists.
- Estimated and prepared bids for submission.
- Negotiated sub contracts and purchase orders.
- Created project and procurement schedules.
- Calculated monthly cost projections.
- Prepared and submitted close out documents.

Scott Richardson



RCN Metro / NEON Communications, Inc.: Westborough, MA (August, 2000 - present)

Manager - Outside Plant Construction New England

- Manage New England Outside Plant Construction Team
- Design and manage the placement, rearrangement and removal of Aerial and Underground fiber optic cables throughout the Northeast and Mid-Atlantic
- Perform aerial and underground site surveys and determine cable routing to provide customer diversity
- Permit Townships for Rights-of-Way to construct new underground and aerial plant
- Hire, manage, and supervise contractors to construct a quality network
- Develop, implement and supervise outside facilities provisioning
- Establish and maintain contacts with all field locations, landlords, managers, and vendor representatives
- Create and maintain construction schedules

VERIZON / BELL ATLANTIC / NYNEX: Boston, MA (February, 1997 – August, 2000)

Outside Plant Engineer

- Single Point of Contact (SPOC) for all Hi-cap services through Boston and South Boston
- Engineered the installation of fiber optic multiplexers for digital services ranging from DS0 to OC-48.
- Designed Underground Feeder and Distribution routes for fiber and copper relief

EDUCATION

Rensselaer Polytechnic Institute, Troy, NY (1992-1996)

Bachelor of Science, Mechanical Engineering, May, 1996

SPECIAL SKILLS AND QUALIFICATIONS

Software - Microsoft Office, Visio, Fastcad, TIRKS, LFACS, Flex-R (Fujitsu), Autocad.

Related Experience / Training – Basic Outside Plant Engineering (Bellcore)

TIRKS/FEPS/SCS (Bellcore) Fujitsu FLM 150/600 Sonet Multiplexers (Fujitsu)

George Washington University – Project Management Certification

Disclosure of Lobbying Activities

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

(See reverse for public burden disclosure)

a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance 2. Status of Fed a. bid/of b. initial c. post-a		fer/application award	3. Report Type: a. initial filing b. material change For material change only: Year quarter Date of last report	
4. Name and Address of Reporting E Prime Subawardee Tier , if Daviel Gallagher OPCHAPE OF FORAT PO BEX 762 West BAWSTABLE, M. Congressional District, if known:	Known:	5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:		
6. Federal Department/Agency: Department, y known. NTIA		Congressional District, if known: 7. Federal Program Name/Description: (370 P) BROADBAUD TECHNOLOGY OPPORTUNITIES Program CFDA Number, if applicable: //.557		
8. Federal Action Number, if known:		9. Award Amount, if known: \$		
10. a. Name and Address of Lobbying (if individual, last name, first name		b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI):		
11. Information requested through this for title 31 U.S.C. section 1352. This disclosur activities is a material representation of fact reliance was placed by the tier above when was made or entered into. This disclosure is pursuant to 31 U.S.C. 1352. This informati to the Congress semi-annually and will be inspection. Any person who fails to file the disclosure shall be subject to a civil penalty \$10,000 and not more than \$100,000 for ea	e of lobbying ct upon which this transaction is required ion will be reported available for public required y of not less than	Signature: Day Hal Print Name: Day of J. GALLAGHER Title: Presidat Telephone No.: 508 362 2131 Telephone No.: × 4701 Date: 8/7/09		
Federal Use Only			ocal Reproduction - LLL (Rev. 7-97)	

CERTIFICATION REGARDING LOBBYING

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, "New Restrictions on Lobbying." The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying." in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into.

Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

Statement for Loan Guarantees and Loan Insurance The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

NAME OF APPLICANT	AWARD NUMBER AND/OR PROJECT NAME
DANIEL J. GALLAGHER	OPENCAPE
PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE	
DAVIEL J. Gallaghor, President	
SIGNATURE 11 MA	DATE
Deul Seffl	8/7/09

ASSURANCES - CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant: Open Cape Corporation

- Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
- Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
- 3. Will not dispose of, modify the use of, or change the terms of the real property title, or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal interest in the title of real property in accordance with awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
- Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
- Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progress reports and such other information as may be required by the assistance awarding agency or State.
- Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
- Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

- Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM=s Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
- Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. 4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
- 10. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex: (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse, (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. 3601 et seq.), as amended relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

- 11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
- Will comply with the provisions of the Hatch Act (5 U.S.C. 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
- Will comply, as applicable, with the provision of the Davis-Bacon Act (40 U.S.C. 276a to 276a-7), the Copeland Act (40 U.S.C. 276c and 18 U.S.C.874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333) regarding labor standards of federally assisted construction subagreements.
- 14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
- Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the

National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738. (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in flood plains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. 1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. 7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

- Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. 1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
- Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. 469a-1 et seq.).
- Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, AAudits of States, Local Governments, and Non-Profit Organizations. @
- Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

TITLE

President, Opencape Corp

APPLICANT ORGANIZATION

Open CAPE Corporation

DATE SUBMITTED

17/09

U.S. Department of Commerce **Broadband Technology Opportunities Program**

- (i) I certify that I am authorized to submit this grant application on behalf of the eligible entity (ies) listed on this application, that I have examined this application, that all of the information and responses in this application, including certifications, and forms submitted, all of which are part of this grant application, are material representations of fact and true and correct to the best of my knowledge, that the entity(ies) that is requesting grant funding pursuant to this application and any subgrantees and subcontractors will comply with the terms, conditions, purposes, and federal requirements of the grant program; that no kickbacks were paid to anyone; and that a false, fictitious, or fraudulent statements or claims on this application are grounds for denial or termination of a grant award, and/or possible punishment by a fine or imprisonment as provided in 18 U.S.C. \$1001 and civil violations of the False Claims Act.
- (ii) I certify that the entity(ies) I represent have and will comply with all applicable federal, state, and local laws, rules, regulations, ordinances, codes, orders and programmatic rules and requirements relating to the project. I acknowledge that failure to do so may result in rejection or deobligation of the grant or loan award. I acknowledge that failure to comply with all federal and program rules could result in civil or criminal prosecution by the appropriate law enforcement authorities.
- (iii) I certify that the entity (ies) I represent has and will comply with all applicable administrative and federal statutory, regulatory, and policy requirements set forth in the DOC Pre-Award Notification, published in the Federal Register on February 11, 2008 (73 FR 7696), as amended; DOC Financial Assistance Standard Terms and Conditions (Mar. 8, 2009); DOC American Recovery and Reinvestment Act Award Terms (April 9, 2009); and any Special Award Terms and Conditions that are included by the Grants Officer in the award."

(Authorized Representative's Signature)

Name:
President, Opencape Corp.

Certification Requirements for BTOP

U.S. Department of Commerce **Broadband Technology Opportunities Program**

I certify that I am the duly authorized representative of the applicant organization, and that I have been authorized to submit the attached application on its behalf. A copy of the applicant organization's authorization for me to submit this application as its official representative is on file in the applicant's office, and I am identified as the applicant organization's Authorized Organization Representative (AOR) in the Central Contractor Registration database. By signing this certification, I certify that the statements contained in the application are true, complete, and accurate to the best of my knowledge, and that if an award is made, the applicant organization will comply with all applicable award terms and conditions.

Daviel J. Gallagher Name: Prosident Openape Corporation Title:

- Use the following table to list the major network build-out phases and milestones that can demonstrate that your entire project will be substantially complete by the end of Year 2 and fully complete by the end of Year 3. This is to be done at the aggregate level (combining all proposed funded service areas.)
- Indicate how the milestones listed below will demonstrate these completion objectives. The applicant should consider such project areas as: a) network design; b) securing all relevant licenses and agreements; c) site preparation; d) equipment procurement; e) inside plant deployment; f) outside plant deployment; g) equipment deployment; h) network testing; i) network complete and operational. The applicant may provide any other milestones that it believes showcase progress.
- Project inception (Year 0) starts at the date when the applicant receives notice that the project has been approved for funding.
- In the table, provide any information (e.g., facts, analysis) to: a) demonstrate the reasonableness of these milestones; b) substantiate the ability to reach the milestone by the quarter indicated.
- On a separate sheet, describe the key challenges, if any, to a timely completion of the project, including any applicable mitigation plans.

Time Period	Qtr	Ope	enCape Corp. Middle Mile Project	
Year 0		Item		Support for Reasonableness/data points
		1.	Finalize contracts with all partners	Complete final negotiations with all partners and sign contracts for each partners deliverables.
		2.	Establish Management Office	In preparation for an award; 1. A site convenient to all partners and central to the project will have been identified and lease paper prepared, 2. Furniture identified from either surplus resources within local government, used furniture stores or other immediately available suppliers will have been spotted and tagged for procurement. 3. Utilities will have been contacted and installation time table determined. Orders will be placed for installation on the day the office space become available. (typically, one to two weeks from order to service installation in this region.) 4. Ads will have been written and ready to be placed for hiring key staff.

7				Ads will be placed on the
				day the award is
				received.(estimated 4-6
				weeks, from employee
				hire decision to
				employment) In the
				interim, Members off the
				OpenCape Executive
				committee will continue in
				A STATE OF THE STA
				their role as project
				overseers until employees
				can assume their roles.
				The executive committee
				with the approval of the
				OpenCape Board of
				Directors will conduct the
				hiring process in
				conjunction with all
				required stipulations and
				Human Resource best
				practices.
				Computers, printers,
				network infrastructure,
				phone switch, copiers will
				have all been pre-
				identified and purchase
				orders will be issued on
				The contract of the contract o
				the day the award is
				announced.
				6.Standard procedures
				and Human Resource
				policies will be established
				prior to award and
				implemented as each
				segment of administration
				is implemented.
		3.	Establish intograted management	Most of this work will have
		.	Establish integrated management	
			systems for all partners	been completed in
				advance of award
				however, implementation
				will identify areas where
				further coordination will be
				required as real data hits
				real accounting and
				management processes.
				Estimate it will take 2
				accounting cycles to
				normalize and
				The state of the s
				accommodate all systems.
				This will include
	- L.			normalizing accounting to
				meet the needs of the
N .				Granting agencies.
			Y	

4.	Schedule and establish OpenCape Project Management for on-budget and on-time completion.	Procedures will have already been established between OpenCape and its strategic Partners prior to award. These will include weekly project meetings with the project team ie; RCN Metro, OpenCape management and representation from the OpenCape Board of Directors, and Barnstable County Government. Each meeting will cover at a minimum; 1. Progress to date toward steps to reach milestones, 2. Review of outstanding issues and changes to the critical path, 3. Steps which need to be expedited to keep project on-time and on-budget, 4. Review of project change orders and their effect on Budget and timetable, 5. Review of agenda items for next meeting.
5.	Establish OpenCape oversight	Already established and functioning, during the course of the project OpenCape Corp's Monthly Board meetings will focus on the; 1. The achievements and challenges to date, 2. The financial status of the OpenCape Corp and the project, 3. The relationship with the partners and the status of the feed-back loop process to maintain control and reduce conflict, 4. The status of the outreach program and the follow-up necessary to insure stakeholders and customers and prospects needs are being addressed,

		5. Status of the outreach program in attracting new users or assisting existing users to exploit the systems capabilities.
6.	Develop & Maintain Contact with the funding sources	Immediately following notice of award, OpenCape will determine with the Granting agency all reporting requirements and attend all training and information sharing opportunities. As we have learned over the last three years of planning sharing between other interested entities is the best tool to secure the development of successful projects. OpenCape is committed to that process.
7.	Establish lease and formalize relationship for the Collocation center	Finalize building lease and gain control over facility which will become the Collocation Center.
8.	Develop advisory groups to represent each of the stakeholder organizations	OpenCape will develop advisory groups to the Board of Directors who represent each major group of stakeholders making up the middle-mile customer base. 1. The purpose of these groups will be to act as a sounding board for service concerns as service is implemented to their constituents, 2. These groups will also serve as a feedback loop for identifying and correcting problems as early as possible. 3. These groups will also serve as the template for expanding services to other similar groups along the service corridor from Boston To Plymouth as those corridors become ready for implementation 4. These organizations

				would be municipal govt, public safety, libraries, schools, health care facilities, colleges and research facilities, Federal facilities, State facilities, last mile provider representatives, and enduser representatives (a listing of all Key institutions and stakeholders may be found under Supplemental Information #1.
		9.	Begin to secure ROW, Licenses and permits	Continuing research work which is ongoing, RCN and OpenCape will formally apply for ROW permissions, RF Licenses where needed and local permits where needed.
Year 1	Qtr 1	10.	Continue negotiations for ROW's for fiber routes. Continue permitting and licensing.	Perfecting Rights of Ways (ROW's), licensing and permitting for fiber routes will continue.
		11.	Manage project	Hold 12 weekly project meetings,
				Hold 3 monthly OpenCape Board of Directors meetings.
				Provide 3 monthly reports and 1 quarterly report to funding agencies.
		12.	Complete wireless engineering. Specify and bid wireless equipment.	Complete the final engineering for the wireless portion of the system, specify, and bid the hardware and electronics.
		13.	Complete system engineering for the wired portion of the system	Finalize engineering for fiber routes, prepare detailed specifications, bid the major components of the system.

	14.	Complete engineering and design for the Collocation Center, develop specifications, bid and award construction contract.	Finalize engineering, design and specifications for Collocation Center, bid the construction of the Collocation Center.
	15.	Identify Points of Presence (POP's) Central offices (CO's) for fiber ring 1 (R1), fiber corridor North to Brocton (N1), and fiber corridor South to providence. Scout and locate other POIP/CO's for remainder of the project	Identify POP & CO locations, conduct ISPE due diligence fro each location, Prepare ISPE design for each POP, Obtain approval for the installation of the equipment in each POP & CO. Identify prospective locations for the other system POP/CO locations.
Qtr 2	16.	Continue negotiations for ROW's for fiber routes. Continue permitting and licensing.	Perfecting Rights of Ways (ROW's), licensing and permitting for fiber routes will continue.
	17.	Manage project and begin outreach program	Hold 12 weekly project meetings, Hold 3 monthly OpenCape Board of Directors meetings. Provide 3 monthly reports and 1 quarterly report to funding agencies. Meet with 5 Board of Selectmen, 1 County Commission meeting and 25% of the stake holders and key institutions.
	18.	Begin installation of the wireless system. Construction Team 1	Install antenna sets on Martha's vineyard.
	19.	Begin Make Ready on R1, Make Ready Team 1	Based on completion of ROW negotiations prepare Poles and conduits from Cape Cod Canal to Falmouth.
	20.	Obtain Building permits for Collocation Center	File for local building permits for construction of Collocation Center.
	21.	Bid, award POP contract. Receive and install POP equipment	Develop RFP, conduct bid process, receive and install POP equipment in

			POP/CO locations.
	22.	Begin make ready on Boston Leg (N1) and Providence leg (S1) Make ready team 2 & 3	Prepare these corridors to receive fiber.
Qtr 3	23.	Manage project and begin outreach program	Hold 12 weekly project meetings,
			Hold 3 monthly OpenCape Board of Directors meetings.
			Provide 3 monthly reports and 1 quarterly report to funding agencies.
			Meet with 5 Board of Selectmen, 1 County Commission meeting and 25% of the stake holders and key institutions.
	24.	Wireless system construction continues.	Complete Tisbury and Woods Hole wireless sites.
	25.	Construct fiber OSP sections from Cape Cod Canal to Falmouth (R1-1; R1-2; R1-3). Start fiber OSP sections for Brocton CO to Plymouth CO (N1-1) and Providence, RI to New Bedford, MA CO (S1-1) Continue make-ready for R1-4, R1-5, R1-6, N1-2, S1-2, Construction team 2, 3 & 4	Based on completion of make ready, begin installation of fiber on the first 3 legs of the first ring of the system. Make ready continues for next legs on R1, N1 and S1.
	26.	Collocation Center construction continues. Order equipment for collocation Center	Construction is in full development. Order equipment to arrive Y2-qtr1.
	27.	Continue negotiations for ROW's for fiber routes. Continue permitting and licensing.	Perfecting Rights of Ways (ROW's), licensing and permitting for fiber routes will continue.
	28.	Plan for third Broad band summit for stake holders and Key Institutions	Continuing on the success of first two Broadband summits in '06 & '08. Plan a 3 rd Summit to keep stakeholders informed and to answer questions.
Qtr 4	27.	Manage project and begin outreach program	Hold 12 weekly project meetings,
			Hold 3 monthly

				OpenCape Board of Directors meetings. Provide 3 monthly reports and 1 quarterly report to funding agencies. Meet with 5 Board of Selectmen, 1 County Commission meeting and 25% of the stake holders and key institutions.
		28.	Continue negotiations for ROW's for fiber routes. Continue permitting and licensing.	Perfecting Rights of Ways (ROW's), licensing and permitting for fiber routes will continue.
		29.	Wireless system construction continues.	Complete Falmouth wireless sites.
		30.	Construct fiber sections from Falmouth CO to Falmouth High School and Falmouth Hospital (R1-4; R1-5; R1-6). Continue Make-Ready for R1-7, R1-8, R1-9, N1-2, N1-3, N1-4 and S1-2, S1-3	Based on completion of make ready, begin installation of fiber on the next 3 legs of the first ring of the system and next legs on the north and south corridors. From Brocton and Providence. Continue make-ready
		31.	Collocation Center construction continues	Construction continues
Year 2	Qtr 1	32.	Manage project and begin outreach program	Hold 12 weekly project meetings, Hold 3 monthly OpenCape Board of Directors meetings.
				Provide 3 monthly reports and 1 quarterly report to funding agencies.
				Meet with 5 Board of Selectmen, 1 County Commission meeting and 25% of the stake holders and key institutions.
		33.	Continue negotiations for ROW's for fiber routes. Continue permitting and licensing.	Perfecting Rights of Ways (ROW's), licensing

		and permitting for fiber routes will continue.
34.	Wireless system construction continues.	Complete Mashpee and Barnstable/Yarmouth wireless sites.
35.	Construct fiber sections from Falmouth High School to Barnstable High School to Barnstable CO to CCCC (R1-7; R1-8; R1-9, R1-10) and New Bedford CO to Mass Maritime Academy (S1-2) and Plymouth CO to Plymouth South High School (N1-2). Continue make-ready for R1-11, R1-12,	Based on completion of make ready, begin installation of fiber on the next 4 legs of the first ring of the system and the next leg of both the North and South Corridors.
36.	Collocation Center construction continues	Construction completes and equipment installation begins
Qtr 2 37.	Manage project and begin outreach program	Hold 12 weekly project meetings,
		Hold 3 monthly OpenCape Board of Directors meetings. Provide 3 monthly reports and 1 quarterly report to funding agencies. Meet with 5 Board of Selectmen, 1 County
		Commission meeting and 25% of the stake holders and key institutions.
38.	Wireless system construction continues.	Complete Harwich wireless sites.
40.	Construct OSP fiber sections from CCCC to Collocation Center to Water Tower to Sandwich Human Services, R1-11, R1-12, R1-13 and start buildout from Mass Maritime Academy to Western end of Cape Cod Canal S1-4 and Plymouth South side High School to cape Cod Canal N1-3. begin make ready R2-1 Collocation Center construction continues	Based on completion of make ready, begin installation of fiber on the next 3 legs completing ring 1 of the system. Beginning at S1-3 continuing to S1-4. beginning at N1-2 to N1-3. Construction completes and equipment installation completes notice of substantial
41.	Prepare to move project and system management office to permanent facility	completion given. Create specifications and bid packing and moving services. Bid and award

				moving contract.
				Identify utility service cutover lead time and order facility cutovers for date following CO issuance.
		42.	RCN and OpenCape develop procedures and training for customer connection and hold 3 rd Broadband Summit	Develop and test procedures for assisting customers in connecting and turning up their systems. Hold the 3 rd Broadband Summit to introduce training and connection protocols.
		43.	Identify Points of Presence (POP's) for fiber ring 2 (R2)	Identify POP locations, conduct ISPE due diligence fro each location, Prepare ISPE design for each POP, Obtain approval for the installation of the equipment in each POP & CO.
		44.	Install POP R1	Install and configure equipment in R1 POP/COs.
	Qtr 3	45.	Manage project and begin outreach program	Hold 12 weekly project meetings, Hold 3 monthly OpenCape Board of Directors meetings. Provide 3 monthly reports and 1 quarterly report to funding agencies. Meet with 5 Board of Selectmen, 1 County Commission meeting and 25% of the stake holders and key institutions.
		46.	Wireless system construction continues.	Complete Orleans wireless sites.
		47.	Construct OSP fiber sections from Sandwich CO to East end of Cape Cod Canal. (R1-14) Completing OSP install of R1. Continue S1-4 and N1-3. Continue Make Ready on R2-1, R2-2, R3-1, R3-2, R3-3, R3-4, R3-5, R3-6	Based on completion of make ready, begin installation of fiber on final leg ring 1 of the system. Continuing S1-3 to S1-4. Continuing N1-2

			to N1-3. Prepare R2 for
			fiber. Prepare R3 for fiber.
	48.	Collocation Center construction continues	CO received, move in begins at Collocation Center.
	49.	Third party testing and Certification begins at Collocation.	Using outside 3 rd party test organization verify Collocation Center meets design specifications.
	50.	Prepare to move project and system management office to permanent facility	Create specifications and bid packing and moving services. Identify utility service cutover lead time and order facility cutovers for date following CO issuance.
	51.	RCN and OpenCape develop procedures and training for customer connection	Develop and test procedures for assisting customers in connecting and turning up their systems.
	52.	Identify POP's & CO's for fiber ring 3 (R3).	Identify POP locations, conduct ISPE due diligence fro each location, Prepare ISPE design for each POP, Obtain approval for the installation of the equipment in each POP & CO.
	53.	Install POP/CO R1, R2, R3, N1, S1	Install and configure equipment in R1 POP/COs.
Qtr 4	54.	Manage project and begin outreach program	Hold 12 weekly project meetings,
			Hold 3 monthly OpenCape Board of Directors meetings.
			Provide 3 monthly reports and 1 quarterly report to funding agencies.
			Meet with 5 Board of Selectmen, 1 County Commission meeting and 25% of the stake holders and key institutions.

		ĘĘ	Wireless system construction	Complete Trure Police
		55.	Wireless system construction continues.	Complete Truro Police tower wireless sites. Completing Wireless build-out
		56.	Test and turn-up Wireless System	Wireless System prepares to go online
		57.	Third party testing and Certification begins on wireless system.	Using outside 3 rd party test organization verify wireless system meets design specifications.
		58.	Test and turn up R1	First ring prepares to go online
		59.	Third party testing and Certification begins on first fiber ring.	Using outside 3 rd party test organization verify first fiber ring meets design specifications.
		60.	Wireless system goes into service	Wireless system accepts customers.
		61.	Ring one goes into service	Ring one accepts customers.
		62.	RCN and OpenCape Training and cutover program to assist new customers implemented.	Program designed during step 42 implemented
		63.	Construct OSP fiber sections from Orleans CO to Nauset High School to Wellfleet to Truro Public Safety and Truro Central School to Provincetown CO to Provincetown Fire Department to Provincetown Pilgrim Monument (R3-1, R3-2, R3-3, R3-4, R3-5, R3-6). Make Ready R2-3, R2-4	Based on completion of make ready, begin installation of fiber on final leg ring 1 of the system. Continuing S1-3 to S1-4. Continuing N1-2 to N1-3. Prepare R2 for fiber.
		64.	Collocation Center goes into service	Collocation Center accepts customers
Year 3	Qtr 1	65.	Manage project and begin outreach program	Hold 12 weekly project meetings, Hold 3 monthly OpenCape Board of
				Directors meetings.
				Provide 3 monthly reports and 1 quarterly report to funding agencies.
				Meet with 5 Board of Selectmen, 1 County Commission meeting and 25% of the stake holders and key institutions.
		66.	Splice South and North corridor into Cape Cod R1	Providence to Ring 1 now ready for

			deployment
	67.	Third party testing and Certification begins on Providence and Brocton first and fiber ring 1.	Using outside 3 rd party test organization verify first fiber ring from Providence and Brocton to Hyannis meets design specifications.
	68.	Brocton and Providence corridors ready to accept customers	Lower Cape and South East Massachusetts portion of the system now ready for customers.
Qtr 2	69.	Manage project and begin outreach program	Hold 12 weekly project meetings,
			Hold 3 monthly OpenCape Board of Directors meetings.
			Provide 3 monthly reports and 1 quarterly report to funding agencies.
			Meet with 5 Board of Selectmen, 1 County Commission meeting and 25% of the stake holders and key institutions.
	70.	Construct OSP fiber sections from Orleans CO to Eddy School to Collocation Center	Construct OSP fiber sections for the remainder of R2.
	71.	R3 OSP complete and ready for deployment	Ring three complete and ready for system testing.
	72.	Third party testing and Certification begins on R3	Using outside 3 rd party test organization verify third fiber ring from Orleans to Provincetown.
	73.	Plan for transition to full-time operations	Prepare for post- construction phase and long term operations.
Qtr 3	74.	Manage project and begin outreach program	Hold 12 weekly project meetings,
			Hold 3 monthly OpenCape Board of Directors meetings.
			Provide 3 monthly reports and 1 quarterly report to funding

ATTACHMENT E - PROJECT PLAN (KEY PHASES AND MILESTONES TO DEMONSTRATE DEGREE OF COMPLETION)

			agencies. Meet with 5 Board of Selectmen, 1 County Commission meeting and 25% of the stake holders and key institutions.
	75.	Full system deployment and testing begins	Test and adjust until design specifications are met.
	76.	Third party testing and Certification begins on full system.	Using outside 3 rd party test organization verify entire system meets all design specifications.
Qtr 4	77.	Punch list and clean-up work	Finalize any construction details.
	78.	Implement full-time sustainability and operations plan.	Begin full time operations as a sustainable system.
	79.	Pay-out final invoices	Pay for last quarter work and any remaining bills
	80.	Close out project and complete final records.	Construction project ends and final reports are filed.
	-		

ATTACHMENT E (CONTINUED) - BUILD-OUT TIMELINE

Complete the following schedule for each proposed funded service area (or, if a middle mile project, for each last mile service area) to indicate the planned build-out in terms of: 1) the requested infrastructure funds; and 2) the entities passed. Entities passed include households, businesses, and "strategic institutions" comprised of critical community facilities, community anchor institutions, and public safety entities. In addition, please complete a separate schedule that aggregates all projected broadband subscribers within the proposed funded service area (or if a middle mile project, for each last mile service area). For BIP only, please include this information for the non-funded service areas as well.

	Name: OpenCape Corporation														
	V 0		YEAR 1		YEAR 2			YEAR 3				VEADA	WEADE		
	Year 0	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr.3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	YEAR 4	YEAR 5
Infrastructure Funds															
Intrstructure Funds Advanced (estimate)		600,000	1,500,000	4,250,000	6,000,000	6,500,000	7,500,000	6,000,000	3,000,000	2,500,000	1,500,000	700,000	300,000		
Percentage of Total Funds		1.5%	3.7%	10.5%	14.9%	16.1%	18.6%	14.9%	7.4%	6.2%	3.7%	1.7%	0.7%		
Entities Passed & %															
Households			7387	7270	37276	120743	16257	48543	5040	47475	16510	14703	3		
Percentage of Total Households			2.3%	2.3%	11.6%	37.6%	5.1%	15.1%	1.6%	14.8%	5.1%	4.6%	Ś		
Business			811	361	3095	8158	4067	1693	165	1798	775	713	3		
Percentage of Total Businesses			3.7%	1.7%	14.3%	37.7%	18.8%	7.8%	0.8%	8.3%	3.6%	3.3%	5		
Strategic Institutions (Comm. Anchor, Public Safety, etc)			30	30	100	133	43	38	C	60	40	78	3		
Percentage of Total Institutions			5.4%	5.4%	18.1%	24.1%	7.8%	6.9%	0.0%	10.9%	7.2%	14.1%	5		

ATTACHMENT E - PROJECT PLAN (Key Challenges and Applicable Mitigation plans)

Threat/Risk	OpenCape response
Incumbent providers apply political pressure to prevent competition in the region	Proactively demonstrate that incumbents can themselves benefit from the investment; gain political support for the need of middle mile infrastructure in this underserved region.
Pole owners stalls on access to pole rights for fiber in passive-aggressive tactic to stall deployment citing perceived competition	Establish relationships with private partners that can gain access to rights of way and utility resources. Diversify path and technology to overcome a single obstacle; proactively negotiate and build regional, state, and federal political support for the effort.
Access to underground rights or canal crossing stall deployment	Develop redundant paths using available and planned canal crossings; continue working proactively with state agencies to raise awareness and incorporate need into plan; continue on development and deployment of wireless backbone; develop alternatives for underground installation; develop alternatives for crossing the canal.
Inability technically or cost-inadvisable to connect to Internet backbone	Support development of Boston/Providence connection project; continue ongoing awareness and interaction with UMass Dartmouth, MBTA, Northern Crossroads, NEREN, and OSHEAN; continue building relationships with other regional projects; expand outreach to all of southeastern and south coast political base
Lack of funds to complete network construction	Identify and partner on five key areas of potential funding and follow up aggressively in Foundation, Local/Regional, State, Federal, and Private capital options
Lack of funds/vision to leverage for regional good	Incorporate plans for funding local applications into operational goals; proactively partner with regional organizations to create ground-up vision investment; identify foundation or grant sources for specific collaborative applications, i.e. education; plan for fund and personnel to deliver message and mange relationships.
Lack of funds to maintain and sustain network operations	Carefully screen and select operator for ability and intent to execute on network sales; in partnership with operator develop an executable plan for sales and marketing; leverage existing relationships to build foundation client base; demonstrate return to community to establish relationship with key municipal clients; use asset in/credit out approach to connect municipal clients to 'ownership' of network.
Natural disaster "act of god" such as hurricane hits Cape Cod, causing damage and delays	Prepare recovery plans in the event of a natural disaster and in all planning build for survivability and/or quick recovery.



Direct Line: 508-790-5400

Fax: 508-771-8079

August 13, 2009 107808-1

Administrator Rural Utilities Service U. S. Department of Agriculture Washington, D. C. 20250-1500

Assistant Secretary
National Telecommunications and Information Administration
U.S. Department of Commerce
Washington, D.C. 20230

Re: OpenCape Corporation

Dear Sir:

We are counsel for OpenCape Corporation, a Massachusetts non-profit corporation (the "Applicant"). In such capacity, we acted as counsel to the Applicant in connection with its ability to apply to the Broadband Technology Opportunities Program (the "Program") and in the review of the grant agreement, as referenced in the Notice of Funds Availability (the "Grant Agreement").

We are of the opinion that:

- (a) the Applicant is a duly organized and existing Massachusetts non-profit corporation under the laws of the Commonwealth of Massachusetts.
- (b) the Applicant has corporate power: (1) to execute and deliver the Grant Agreement; and (2) to perform all acts required to be done by it under said agreement.
- (c) no legal proceedings have been instituted or are pending against the Applicant, the outcome of which would adversely affect the Applicant's ability to perform the duties under the Grant Agreement, and there are no judgments against the Applicant which would adversely affect the Applicant's ability to perform the duties under the Grant Agreement.



(d) The Applicant has the power to own its property and carry out its business as now conducted.

Our opinion is subject to the following assumptions and qualifications:

- 1. In rendering this opinion, we have assumed that the Program and all officers executing and delivering documents on its behalf have all necessary power and authority to fund the grant, that all such transactions have been duly authorized by all necessary corporate action by the Program and that all such officers have been duly elected to hold the offices they purport to hold.
- 2. In rendering this opinion, we have relied upon the facts and statements contained in the organizational documents of the Applicant. We are aware of no facts or material information which would lead to a contrary opinion.
- We have assumed the genuineness of all signatures, the legal capacity of natural persons, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as certified or photo static copies.
- 4. We have made such examination of Massachusetts law as we have deemed relevant for the purposes of this opinion, but we have not made an independent review of the laws of any other state or jurisdiction. We express no opinion as to whether the laws of any particular jurisdiction (other than Massachusetts) apply or the extent that the laws of any jurisdiction other than that identified above are applicable to the subject matter hereof.
- 5. This opinion is limited to the matters expressly stated herein, and no opinion is implied or may be inferred beyond the matters expressly stated herein.
- 6. The opinions expressed herein are based upon certain dated certificates and organizational documents. We are not aware and have been informed that no act or event has occurred between the dates thereof and the date hereof that would in any way affect any of the matters opined upon or that would in any manner alter those certificates.
- 7. No opinion is expressed as to whether any provisions of the Grant Agreement is specifically enforceable in equity, whether such enforceability is considered in a proceeding in equity or at law.

This opinion is rendered solely for the benefit of the Program in connection with the Grant Agreement. This opinion may not be relied upon by any other party or entity without our prior written consent.



This opinion is rendered solely for the benefit of the Program in connection with the Grant Agreement. This opinion may not be relied upon by any other party or entity without our prior written consent.

Sincerely

Nutter McClennen & Fish LLP

1850266.1

General Budget Overview: OpenCape (1174)

Budget	Loan Request	Federal Funding Request	Matching Funds (Cash)	Matching Funds (In-Kind)	Equity	Debt	Bond	Other	TOTAL
Network & Access Equipment (switching,								7 1	
routing, transport, access)		2,225,359							\$2,225,359
Outside Plant (cables, conduits, ducts, poles,									
towers, repeaters, etc.)		23,695,669	7,000,000						\$30,695,669
Buildings and Land – (new construction, improvements, renovations, lease)		4,420,065		1,000,000			A		\$5,420,065
Customer Premise Equipment (modems, set-		4,420,000		1,000,000					Ψ0,420,000
top boxes, inside wiring, etc.)									\$0
Billing and Operational Support Systems (IT systems, software, etc.)									\$0
Operating Equipment (vehicles, office equipment, other)		44,000							\$44,000
Engineering/Professional Services (engineering design, project management, consulting, etc.)		1,687,000							\$1,687,000
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)									\$0
Site Preparation									\$0
Other				339,300					\$339,300
TOTAL BROADBAND SYSTEM:	\$0	\$32,072,093	\$7,000,000	\$1,339,300	\$0	\$0	\$0	\$0	\$40,411,393

BROADBAND TECHNOLOGY OPPORTUNITIES PROGRAM Federal Request and Match Verification

Name of Applicant Organization <u>Spenicape Corporation</u> DUNS Number <u>825/8/949</u>
Easy Grants # of Submitted Application
As an Authorized Organizational Represented of the entity listed above, I verify that
(i.) The amounts in the "Grant Request" column from the budget table submitted by the entity I represent in response to Question 44 on page 17 of the Broadband Infrastructure Application completely and accurately reflect the amount of the organization's Federal grant request to NTIA; and
(ii.) The amounts in the "Cash \$" and "In-kind \$" fields submitted by the entity I represent in response to Question 52 on page 19 of the Broadband Infrastructure Application completely and accurately reflect, respectively, the organization's cash and in-kind matching contributions for the proposed project.
Signature of authorized person <u>Daviel</u> Date <u>11/09/09</u> Print name of authorized person <u>Daviel</u> J. Gallagher Title or position <u>Resident</u>

DETAIL OF PROJECT COSTS: OpenCape (1174)

PLEASE COMPLETE THE TABLE BELOW FOR THE DIFFERENT CATEGORIES OF EQUIPMENT THAT WILL BE REQUIRED FOR COMPLETING THE PROJECT. EACH CATEGORY SHOULD BE BROKEN DOWN TO THE APPROPRIATE LEVEL FOR IDENTIFYING UNIT COST

	VICE AREA or COMMON ETWORK FACILITES:	Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
NETWORK & A	CCESS EQUIPMENT				\$2,225,359	
Switching	Ethernet Transport	Yes	15000	10	\$150,000	Representative RCN Metro pre-negotiated
Switching	Engineering, Installation, & Tes	Yes	2695	10	\$26,950	equipment cost from vendors such as
Routing						Nortel, Ciena, and Cisco were used to
	5°DWDM ROADM Node w/2° li	Yes	85850	7	\$600,950	establish the network equipment cost. Cost for the following were included:
	5°DWDM ROADM Node w/3° li	Yes	129500	2	\$259,000	Tot the following were increased.
Transport	5°DWDM ROADM Node w/4° li	Yes	162600	2	\$325,200	(1) Optical networking equipment to
Transport	Installation Materials - Verizon	Yes	6891	9	\$62,019	establish the DWDM ROADM network
	Installation Materials - RCN Me	Yes	1500	1	\$1,500	
	Installation Materials - Barnstab	Yes	1500	1	\$1,500	(2) Ethernet transport circuit packs to
A	Ethernet Switch	Yes	4000	65	\$260,000	provide three 10Gb/s Ethernet Rings
Access	Backup power & materials	Yes	4100	65	\$266,500	(3) Ethernet access switches for 65
	Transport Engineering, Installation, Configuration, & Test	Yes	10955	11	\$120,505	OpenCape participants (4) Engineering, Installation, Configuration,
Other	Access Engineering, Installation, Configuration, & Test	Yes	1995	65		and Test All work to be preformed by RCN Metro of
	Ethernet Ring Engineering, Installation, Configuration, & Test	Yes	2695	8		RCN Metro's representatives in accordance with RCN Metro standards and customary telecommunications practices.
					0	
OUTSIDE PLAN	IT				\$30,695,669	
Cables						By making use of aerial cabling to the greatest extent possible, it allows the best use of financial resources, minimizes the effect on wetlands and other sensitive environmental areas. In addition, the timely installation of about two hundred and forty miles of cable by using existing structures will help to complete.
	Aerial Survey	Yes	62	20000	\$1,240,000	Cost of survey Public Utilities (per pole)
	Aerial Make-Ready	Yes	279	20000	\$5,580,000	Make-ready required for pole attachments (per pole)
	Cable Exterior	Yes	2	1958880		Cost of the all cable - 288F ADSS (per ft.)
	Hardware	Yes	345,037	1	\$345,037	Cost of splice cases, slack management/snow shoes (total)

						The strategic use of underground cabling into the data center, colo, Pop's and
						microwave systems allows the use of some
						of the existing underground infrastructure
						and the utility entrances into buildings.
						Engineering and Installation to be done in
						accordance with standard and customary
						practices.
						Permitting/bonding/ROW costs for UG
	Permitting/Bonding/ROW	Yes	85,050	1	\$85,050	construction (total)
Conduits, Ducts						Verizon Telephone conduit survey fees (per
Exterior	Telco UG Conduit Survey	Yes	4.00	74665	\$298,660	('
	Telco Conduit Make-Ready	Yes	4.2	74665	\$313 503	Make-ready (innerduct placement) for OpenCape fiber
	Telco Collulit Make-Ready	165	4.2	74003	Φ3 13,393	Cost to break in and out of Verizon
	Telco Manhole Breakouts	Yes	1,584	40	\$63,360	manholes (per MH)
			1,550		722,223	Verizon inspectors to oversee work in their
	Contract Work Inspector	Yes	124	400	\$49,600	conduits (per hr)
						New conduit expense (cost per mile,
	Conduit Placing	Yes	191,548	31	\$5,937,988	grass/concrete/asph)
			40.000		00000010	Innerduct expense and placement in new
	Innerduct Placing	Yes	10,623	31	\$329,313	
						Allows the connectivity between the optronics equipment and the network. EMT
	Conduit Placing	Yes	11,340	50	\$567,000	conduit construction (per location)
	Conduit Flacing	103	11,040	00	φοστ,σσσ	Cost and placement of Innerduct in EMT
	Innerduct Placing	Yes	1,198	50	\$59,900	conduit (per location)
Conduits, Ducts,	Ŭ I		, , , , , , , , , , , , , , , , , , ,		. ,	ISP Cable placement costs (per location)
Interior	Cable Placing	Yes	425	50	\$21,250	
Interior						ISP Splicing expense (per location), incl.
	Cable Splicing	Yes	1,515	70	\$106,050	Central Offices
	Cable Testing and review	Yes	35	20160	\$705,600	Testing after cable is in place (per fiber per
	Cable Testing and review	168	33	20160	\$705,600	location) Verizon Central Office Vault splice location
	Telco CATT Application/M-R	Yes	3,402	15	\$51,030	
Poles	Not Required		-,		· · · · · · · · · · · · · · · · · · ·	Using existing poles
	Microwave Equipment	Yes	122000	13	\$1,586,000	5 5
	Materials	Yes	48500	13	\$630,500	Equipment, materials, installation,
	Installation contractor labor deta	Yes	379000	1	\$379,000	configuration, and testing costs
	mstallation contractor labor det	103	373000	<u>'</u>	Ψ573,000	extrapolated for a 12 link, 13 node
Towers						microwave communication system and
						700Mhz mobile public safety system. The
						cost estimates are based on queries of vendors experienced in such installations.
	Public Safety 700Mhz System	Yes	46500	13	\$604 500	Cost includes licensed spectrum for radios.
Repeaters	Not Required	103	40000	10	φου,ουσ	Cost molades nochised spectrum for radios.
repeaters	Not Required				0	Contract and in-house Engineering / Project
	Engineering / Project Mgmt / Ot	Yes	100	2566	\$256.600	Mgmt /Testing /Etc
					,	Costs associated with cable placement
	Exterior Cable Placing	Yes	13,018	371		(total aerial and UG)
	Exterior Cable Splicing	Yes	150	1588	\$238,200	Splicing expense (per splice location)
Other						Traffic Control (hourly cost per detail) -
						multiple details per day. Massachusetts
						General Law and local regulations and by- laws in Massachusetts require the use of
						police details rather than flag men at all
						road construction sites and along the
	Police Details	Yes	50	50000	\$2,500,000	adjoining right of way.
					0	· ·
1	!		•		·	

	AREA or COMMON ORK FACILITES:	Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
BUILDINGS					\$5,420,065	
					0	
New Construction	-				0	
					0	
					0	
Pre-Fab Huts					0	
i ic-i ab iiats					0	
					0	25 year IRU/Capital Lease from Barnstable
	Barn. Cty. Bldg. IRU	Yes	1000000	1	\$1,000,000	County of 10,000 soft building
Improvements &	Dann. Gty. Drag. Into	100	1000000		\$1,000,000	Building general renovation, ADA
Renovation Bldg		0	n Assault of			compliance based on engineering estimates
	Barn. Cty. Bldg. Renovation	Yes	1410045	1	\$1,410,045	form contractors
						Data center estimates based on RCN
						extensive experience in other colos through
						in house engineers.
			7			3 tons of cooling for the electric room, 10
	HVAC	Yes	452000	1		tons of cooling for the data center & 9 APC
	HVAC	162	452000		\$452,000	in row cooling racks . Installation contractor for the UPS, HVAC,
	UPS	Yes	115000	1	\$115,000	Infrastructure materials
	0.0	100	110000		\$110,000	Equipment Racks, Cable ladder system,
Improvements &	Materials	Yes	435000	1	\$435,000	grounding & Fire Suppression system
Renovation Data	VM SAN	Yes	425000	1		Storage Area Network
Center						Includes generator pad, transfer switch, and
						wiring for the Data Center Emergency
	Generator & Infrastructure	Yes	348000	1		electrical backup system
		.,	0.470	0.0	The second secon	Provide 36 cabinets for the housing of the
	In row cabs	Yes	3472	36	\$124,992	
	Equipment	Yes	410000	1		Switching, routing and other associated integration equipment
	Equipment	168	410000			New electric service to the building,
						electrical distribution panels, transformer
	Electrical Infrastructure	Yes	228000	1		and interior electrical wiring.
						Installation of the racks to support the
			0.00			installation of the Cisco 3750s, & the FDP
	POPs	Yes	68334	3	\$205,002	to accept the OSP fiber.
Improvements &						Co's provide for regeneration and the
Renovation Central	17.	.,	10010		0400 400	handoff to those without laterals into their
Offices	Verizon CO's	Yes	16016	8	\$128,128	
	Materials	Yes	57348	1	\$57,348	Materials for the installation of equipment in
	Waterials	163	37340	- 1		In house project management for the
	Project Management	Yes	81550	1		construction of the Data Center
CUSTOMER PREMIS					\$0	
					0	
Modems					0	
					1 0	
					0	
Set Top Boxes					1 0	
Set 10h Boxes					0	
					0	
					0	
Inside Writing					0	
					0	
					0	
Other					0	

		2 2 2	0	
BILLING SUPPORT AND OPERAT	IONS SUPPORT SYSTEMS		\$0	
Billing Support			0	
Systems			0	
Cystems			0	
G			0	
Customer Care Systems	* 1		0	
Systems			0	
			0	
Other Support	- 4 4 0		0	

	AREA or COMMON ORK FACILITES:	Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
OPERATING EQUIP					\$44,000	
DI EIGHING EGGII I					0	
/ehicles	nicles				0	
					0	
	Furniture	Yes	23000	1	\$23,000	
Office Equipment /	Computer and Phone Equip	Yes	21000	1	\$21,000	
urniture	Compater and Frioric Equip	103	21000		0	
					0	
Other					0	
					0	
PROFESSIONAL SE	RVICES				\$1,687,000	
	1020				91,087,000	
Ingineering					0	
Design	+				0	
	Director	Yes	90	6,150	\$553,500	
Project	Construction Coordinator	Yes	60	6,150	\$369,000	
/lanagement	Administrative Support	Yes	30	6,150	\$184,500	
	Legal, Accounting, Compliance	Yes	290	2,000	\$580,000	
Consulting	Legal, Accounting, Compilance	165	290	2,000	\$380,000	
Jonisalang						
	+				0	
Other						
Julei					0	
FETING					0	
ESTING			U		\$0	
letwork					0	
lements					0	
					0	
T System					0	
lements					0	
					0	
lear Davisco					0	
Jser Devices					0	
					0	
					0	
Test Generators					0	
	+				0	
ab					0	
urnishings					0	
www.comunic 🗸 🗡					0	
Servers /					0	
Computers					0	
					0	

SERVICE AREA or COMMON NETWORK FACILITES:		Eligibility (Yes/No)	Unit Cost	No. of Units	Total Cost	Support of Reasonableness
OTHER UPFROM	IT COSTS				\$339,300	
Site Preparation					0	
Tropulation.		ar w	0.00000	90.000.000	0	
	OpenCape Volunteers 7/9-8/14	Yes	90	980	\$88,200	
Other	OpenCape Volunteers 8/14-12/	Yes	90	890	\$80,100	
	OpenCape Volunteers Post Aw	Yes	90	1,900	\$171,000	

U.S. Department of Commerce **Broadband Technology Opportunities Program**

- (i) I certify that I am authorized to submit this grant application on behalf of the eligible entity (ies) listed on this application, that I have examined this application, that all of the information and responses in this application, including certifications, and forms submitted, all of which are part of this grant application, are material representations of fact and true and correct to the best of my knowledge, that the entity(ies) that is requesting grant funding pursuant to this application and any subgrantees and subcontractors will comply with the terms, conditions, purposes, and federal requirements of the grant program; that no kickbacks were paid to anyone; and that a false, fictitious, or fraudulent statements or claims on this application are grounds for denial or termination of a grant award, and/or possible punishment by a fine or imprisonment as provided in 18 U.S.C. \$1001 and civil violations of the False Claims Act.
- (ii) I certify that the entity(ies) I represent have and will comply with all applicable federal, state, and local laws, rules, regulations, ordinances, codes, orders and programmatic rules and requirements relating to the project. I acknowledge that failure to do so may result in rejection or deobligation of the grant or loan award. I acknowledge that failure to comply with all federal and program rules could result in civil or criminal prosecution by the appropriate law enforcement authorities.
- (iii) I certify that the entity (ies) I represent has and will comply with all applicable administrative and federal statutory, regulatory, and policy requirements set forth in the DOC Pre-Award Notification, published in the Federal Register on February 11, 2008 (73 FR 7696), as amended; DOC Financial Assistance Standard Terms and Conditions (Mar. 8, 2009); DOC American Recovery and Reinvestment Act Award Terms (April 9, 2009); and any Special Award Terms and Conditions that are included by the Grants Officer in the award."

(Authorized Representative's Signature)

Name:
President, Opencape Corp.

Certification Requirements for BTOP

U.S. Department of Commerce **Broadband Technology Opportunities Program**

I certify that I am the duly authorized representative of the applicant organization, and that I have been authorized to submit the attached application on its behalf. A copy of the applicant organization's authorization for me to submit this application as its official representative is on file in the applicant's office, and I am identified as the applicant organization's Authorized Organization Representative (AOR) in the Central Contractor Registration database. By signing this certification, I certify that the statements contained in the application are true, complete, and accurate to the best of my knowledge, and that if an award is made, the applicant organization will comply with all applicable award terms and conditions.

Daviel J. Gallagher Name: Prosident Openape Corporation Title:

FORM **C0-512** (REV 12-04)

CERTIFICATION REGARDING LOBBYING LOWER TIER COVERED TRANSACTIONS

U.S. DEPARTMENT OF COMMERCE

Applicants should review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, "New Restrictions on Lobbying."

LOBBYING As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or toan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

Statement for Loan Guarantees and Loan Insurance The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

NAME OF APPLICANT	AWARD NUMBER AND/OR PROJECT NAME
Daviel Gallagher	Ofercape
PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE	
Daniel Gallagher,	
SIGNATURE	DATE 8/16/09

CERTIFICATION REGARDING LOBBYING

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, "New Restrictions on Lobbying." The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
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As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

NAME OF APPLICANT	AWARD NUMBER AND/OR PROJECT NAME
DANIEL J. GALLAGHER	OPENCAPE
PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE	
DAVIEL J. Gallaghor, President	
SIGNATURE 11 MA	DATE
Deul Seffe	8/7/09

ASSURANCES - CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant: Open Cape Corporation

- Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
- Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
- 3. Will not dispose of, modify the use of, or change the terms of the real property title, or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal interest in the title of real property in accordance with awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
- Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
- Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progress reports and such other information as may be required by the assistance awarding agency or State.
- Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
- Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

- Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM=s Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
- Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. 4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
- 10. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex: (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse, (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. 3601 et seq.), as amended relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

- 11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
- Will comply with the provisions of the Hatch Act (5 U.S.C. 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
- Will comply, as applicable, with the provision of the Davis-Bacon Act (40 U.S.C. 276a to 276a-7), the Copeland Act (40 U.S.C. 276c and 18 U.S.C.874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333) regarding labor standards of federally assisted construction subagreements.
- 14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
- Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the

National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738. (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in flood plains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. 1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. 7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

- Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. 1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
- Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. 469a-1 et seq.).
- Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, AAudits of States, Local Governments, and Non-Profit Organizations. @
- Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

TITLE

President, Opencape Corp

APPLICANT ORGANIZATION

Open CAPE Corporation

DATE SUBMITTED

17/09

Disclosure of Lobbying Activities

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

(See reverse for public burden disclosure)

a. contract b. grant c. cooperative agreement d. Ioan e. loan guarantee f. loan insurance	2. Status of Federal Action: a. bid/offer/application b. initial award c. post-award		3. Report Type: a. initial filing b. material change For material change only: Year quarter Date of last report	
4. Name and Address of Reporting E Prime Subawardee Tier , if Daviel Gallagher OPEN APE OF FORCE POBEX 762 West BAWSTABLE, M. Congressional District, if known:	Known:	Enter Name	ng Entity in No. 4 is Subawardee, and Address of Prime:	
6. Federal Department/Agency: Department, of Company NTIA		Congressional District, if known: 7. Federal Program Name/Description: (370P) BROADBAND TECHNOLOGY OPPORTUNITIES Program CFDA Number, if applicable: //.557		
8. Federal Action Number, if known:		9. Award Amount, if known: \$		
10. a. Name and Address of Lobbying Registrant (if individual, last name, first name, MI):		b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI):		
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.		Signature: Day Hall Print Name: Day of J. GALLAGHER Title: President Telephone No.: 508362-2131 Telephone No.: × 4701 Date: 8/7/05		
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