

# CCPSA Cost Estimates

December 17, 2018

# CCPSA Cost Estimates: Capital Costs and Management Services

- Purpose
  - If service is to begin in FY 20, Costs will need to be budgeted directly or available as contingencies in municipal budgets
- Process
  - Considered prior consulting work by DeltaWRX, pricing from IXP for management services, obtained quotes for capital components, met with representatives from all six communities
- Elements
  - Future Management Costs
  - Current Management Costs
  - Capital Costs
    - Prior Estimates of Capital Costs
    - Current Capital Costs
  - Offsetting PSAP Revenues
- Capital and Management Cost Summary

# CCPSA Cost Estimates: Management Costs

- Annual Fee for IXP Management Services is \$290,000
- Current Local Dispatch Management Costs are \$400,953
  - FY 16 data submitted by members
    - Direct costs were costs of dispatchers and other direct operating costs
    - Total costs included cost of police overseeing dispatchers
    - Difference between total costs and direct costs is \$363,244
    - With 2.5% annual increase, management costs for FY 20 are 400,953
- Annual Savings of \$110,953
  - Police overseeing dispatch will have more time to manage police

Municipality	Population	Authorized Dispatch FTE	FY 16 CFS (Law)	FY 16 CFS (Fire/EMS)	FY 16 Total CFS	FY 16 Total Dispatch Costs * **	FY 16 Direct Costs *	Cost/Call
Burlington	42,570	12 + Mgr.	37,083	7,467	44,550	\$ 1,184,058	\$ 1,050,712	\$ 23.59
Colchester	17,293	7	13,295	3,078	16,373	\$ 385,985	\$ 338,545	\$ 20.68
Essex	20,419	5	17,500	3,035	20,535	\$ 575,300	\$ 523,000	\$ 25.47
Milton	10,610	0	8,988	1,067	10,055	\$ 203,178	\$ 203,178	\$ 20.21
Shelburne (PSAP)	7,566	8.5	9,660	1,251	10,911	\$ 401,591	\$ 292,168.94	\$ 26.78
South Burlington	18,536	6.5	15,383	3,304	18,687	\$ 602,450	\$ 529,225	\$ 28.32
Williston **, ****	9,054	2 **	10,356	1,883	12,239	\$ 228,861	\$ 203,825	\$ 16.65
Winooski ****	7,223	5	8,957	1,345	10,302	\$ 483,225	\$ 399,028	\$ 38.73
<b>Total</b>	<b>133,271</b>	<b>47</b>	<b>121,222</b>	<b>22,430</b>	<b>143,652</b>	<b>4,064,648</b>	<b>3,539,682</b>	<b>\$ 24.64</b>

# CCPSA Cost Estimates: Capital Costs

- Prior Estimate of Capital Costs
  - Prior Consultant DeltaWRX Estimated \$1,136,200 without Radio Work

<b>One Time Startup Costs</b>	
CAD/Mobile Software (Licenses, Implementation and Training)	\$500,000
CAD Servers	\$50,000
NetClock	\$12,000
Voice Logging System	\$85,000
Interface Development	\$150,000
911	\$15,000
GIS	\$10,000
Law RMS	\$50,000
Fire RMS	\$15,000
ImageTrend	\$15,000
Station Alerting	\$15,000
NCIC/VCIC	\$30,000
Facility Upgrade	\$30,000
Workstation Furniture	\$96,000
Workstation Computers and Wiring	\$40,000
Telecomm Upgrades	\$25,000
Miscellaneous 15%	\$148,200
<b>Total</b>	<b>\$1,136,200</b>

# CCPSA Cost Estimates: Capital Costs

- Current Estimates of Capital Costs: \$2,022,166 incl. Radio

Capital Cost	Item(s)
\$ 18,000	Phone system
\$ 162,550	CAD, Tyler ONLY
\$ 171,370	CAD training and customization
\$ 12,000	Printers and copier (1 medium sized multifunction copier and 4 laserjets)
\$ 8,000	Audio/video monitoring system hardware and setup: ~ ten 48" screens and 2 computers
\$ 1,800	Firewall/router/capacity to work with dual failover (two internet providers)
\$ -	Cable and fiber modem (supplied by Comcast and Consolidated)
\$ 85,000	Voice logging (for CCPSA only, Locals will still need their own)
\$ 30,000	Server, virtualized for files/printing/domain control/CAD system
\$ -	lighting and wiring, included in facility
\$ 8,400	Net clock
\$ 4,500	5 regular workstations
\$ 13,300	7 dispatch computers affiliated with CAD) system
\$ 5,000	5 office setups, desks, etc.
\$ 75,000	CAD upgrades, TYLER only to link with Valcour or another Police RMS
\$ 10,000	Backup copper phone system and setup
\$ 12,000	CAD 3 TB hot backup device, on site, connects to cloud
\$ 133,000	Dispatch desks - 7
\$ 20,000	IT setup
\$ 672,246	Radio improvements - without Milton (including 8 dispatch computers Radio consoles)
\$ 350,000	Facility upgrade
\$ 50,000	GIS setup
\$ 50,000	Moving and setup of PSAP equipment (equipment provided by 911 bd.)
\$ 130,000	Contingency 7%
<b>\$ 2,022,166</b>	<b>Total Estimated Capital</b>



# CCPSA Cost Estimates: Capital Costs

- Current Capital Costs: Local Dispatch
  - Ten dispatch stations with special desks, telecom, dispatch radio console, dispatch software computer
  - Plan calls for eight stations
  - Burlington spent \$346,000 on computer aided dispatch software and hardware
  - Colchester planning \$150,000 upgrade to radio consoles regardless of regional
  - Dispatch software now used by 5 of 6 members was designed as a records management system and needs to be upgraded to CAD or augmented with a CAD
  - **\$999,920 in capital costs is to replace equipment and software we are currently maintaining and replacing independently**
  - **\$1,022,246 in remaining capital is necessary to function as a public safety answering point**
    - **Radio system integration of \$672,246**
    - **Building modification costs of \$350,000 for restrooms, lunchroom breakrooms, offices, lockers.**
  - **We now have a strong understanding of capital costs, and while IXP may hone them slightly, they will not change substantially.**

# CCPSA Cost Estimates: Offsetting Revenues

- As a PSAP, annual grants will total about \$184,000
  - Need to first set up and operate dispatch/PSAP center so grants should not be counted till after second year

PSAP Call Estimate for Chittenden County Regional Dispatch based on 911 calls within Chittenden County (CC)

TOWN	2016 CALL TOTAL	Shelburne non CC	Shelburne CC	Williston (St. Police) CC	CCPSA
BOLTON	1,542		1,542		
BUELS GORE	2		2		
BURLINGTON	15,140			15,140	15,140
CHARLOTTE	922		922		
COLCHESTER	7,196			7,196	7,196
ESSEX	4,006			4,006	
HUNTINGTON	138		138		
HINESBURG	593		593		
JERICO	799			799	
MILTON	3,533			3,533	3,533
RICHMOND	758		758		
SHELBURNE	1,812		1,812		
WILLISTON	3,847		641	3,206	3,206
SAINT GEORGE	409		409		
SOUTH BURLINGTON	7,504			7,504	7,504
UNDERHILL	249			249	
WINOOSKI	2,657			2,657	2,657
WESTFORD	125			125	
SHELBURNE-Outside CC (based on April 2016)	4,388	4,388			
<b>GRAND TOTAL</b>	<b>55,620</b>	<b>4,388</b>	<b>6,817</b>	<b>44,415</b>	<b>39,236</b>

PSAP Revenue Estimate for Chittenden County Regional Dispatch

	TOTAL	Shelburne non CC	Shelburne CC	Williston (St. Police) CC	CCPSA
Seats	6.6	0.52	0.8	5.3	4.0
Value of seats	\$ 157,500	\$ 22,500	\$ 22,500	\$ 112,500	\$ 90,000
Value of calls	\$ 147,955	\$ 11,674	\$ 18,134	\$ 118,148	\$ 93,934
<b>Total annual revenues</b>	<b>\$ 305,455</b>	<b>\$ 34,174</b>	<b>\$ 40,634</b>	<b>\$ 230,648</b>	<b>\$183,934</b>

# CCPSA Cost Estimates: Capital and Management Cost Summary

- Capital Costs
  - Total Capital Costs: \$2,022,166
  - Ten Year Financing: Annual Costs of \$252,600
  - **These are not entirely new costs**
  - Half of capital costs are currently being paid by Cities/Towns
  - PSAP revenues of \$184,000 more than offset new capital
- Management Costs
  - Current dispatch Management Costs Exceed PSAP Management Costs
  - Annual Fee for IXP Management Services is \$290,000
  - FY 20 Local Dispatch Management Costs are \$400,953
  - **Annual Savings of \$110,953**
    - Police Management staff can be re-deployed