

Emergency Telephone System Board of DuPage County
Preliminary Cost Projection

REVENUE SOURCE	Year 1		Year 2		Year 3		Year 4		Year 5	
	FY-2010 EST. BUDGET	FY-2011 ETS. BUDGET	FY-2012 EST. BUDGET	FY-2013 EST. BUDGET	FY-2014 EST. BUDGET	FY-2015 EST. BUDGET	FY-2016 EST. BUDGET	FY-2017 EST. BUDGET	FY-2018 EST. BUDGET	FY-2019 EST. BUDGET
CASH IN BANK AT START OF FISCAL YEAR		\$ 28,848,370.83	\$ 22,960,799.95	\$ 17,837,447.51	\$ 12,441,900.61	\$ 6,795,550.45	\$ 1,950,850.81	\$ 2,745,580.76	\$ 3,306,639.60	\$ 3,682,570.08
INVESTMENTS	\$ 6,634,383.78									
WIRELINE REVENUE	\$ 2,619,000.00	\$ 2,435,670.00	\$ 2,192,103.00	\$ 1,972,892.70	\$ 1,775,603.43	\$ 1,598,043.09	\$ 1,438,238.78	\$ 1,294,414.90	\$ 1,164,973.41	\$ 1,048,476.07
ANTICIPATED REVENUE [LAST 2 MTHS OF YR]	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WIRELESS REVENUE	\$ 27,410,755.10	\$ 5,500,000.00	\$ 5,500,000.00	\$ 5,500,000.00	\$ 5,500,000.00	\$ 5,500,000.00	\$ 5,500,000.00	\$ 5,500,000.00	\$ 5,500,000.00	\$ 5,500,000.00
REVENUE AVAILABLE BALANCE	\$ 36,664,138.88	\$ 36,784,040.83	\$ 30,652,902.95	\$ 25,310,340.21	\$ 19,717,504.04	\$ 13,893,593.54	\$ 8,889,089.59	\$ 9,539,995.66	\$ 9,971,613.01	\$ 10,231,046.14
OPERATING BUDGET	\$ 7,815,768.05	\$ 5,093,161.05	\$ 5,245,955.88	\$ 5,298,415.44	\$ 5,351,399.59	\$ 5,404,913.59	\$ 5,458,962.73	\$ 5,513,552.35	\$ 5,568,687.88	\$ 5,624,374.76
Proposed Projects Costs		\$ 8,577,285.00	\$ 7,517,040.00	\$ 7,517,040.00	\$ 7,517,040.00	\$ 6,483,780.00	\$ 629,956.48	\$ 664,668.18	\$ 664,668.18	\$ 664,668.18
RESERVE FUNDS	\$ 36,664,138.88	\$ 36,784,040.83	\$ 30,652,902.95	\$ 25,310,340.21	\$ 19,717,504.04	\$ 13,893,593.54	\$ 8,889,089.59	\$ 9,539,995.66	\$ 9,971,613.01	\$ 10,231,046.14
EXPENDED incl radio network airtime	\$ 7,815,768.05	\$ 13,823,240.88	\$ 12,815,455.44	\$ 12,868,439.59	\$ 12,921,953.59	\$ 11,942,742.73	\$ 6,143,508.83	\$ 6,233,356.06	\$ 6,289,042.94	\$ 6,345,286.68
END OF YEAR BALANCE	\$ 28,848,370.83	\$ 22,960,799.95	\$ 17,837,447.51	\$ 12,441,900.61	\$ 6,795,550.45	\$ 1,950,850.81	\$ 2,745,580.76	\$ 3,306,639.60	\$ 3,682,570.08	\$ 3,885,759.46
	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19
Wireless budget fy 10 ESTIMATED	\$ 2,500,000.00									
Total Operating Budget	\$ 5,315,768.05	\$ 5,093,161.05	\$ 5,245,955.88	\$ 5,298,415.44	\$ 5,351,399.59	\$ 5,404,913.59	\$ 5,458,962.73	\$ 5,513,552.35	\$ 5,568,687.88	\$ 5,624,374.76
Percentage Increase for Operating Budget	\$ 152,794.83	\$ 52,459.56	\$ 52,984.15	\$ 53,514.00	\$ 54,049.14	\$ 54,589.63	\$ 55,135.52	\$ 55,686.88	\$ 56,243.75	
TOTAL OPERATING BUDGET W/ INCREASE	\$ 5,245,955.88	\$ 5,298,415.44	\$ 5,351,399.59	\$ 5,404,913.59	\$ 5,458,962.73	\$ 5,513,552.35	\$ 5,568,687.88	\$ 5,624,374.76	\$ 5,680,618.50	
PROPOSED PROJECT COSTS										
RADIO SYSTEM PAYMENTS Estimated		\$ 5,587,780.00	\$ 5,587,780.00	\$ 5,587,780.00	\$ 5,587,780.00	\$ 5,587,780.00	\$ 289,956.48	\$ 324,668.18	\$ 324,668.18	\$ 324,668.18
AIR TIME REIMBURSEMENT Estimated		\$ 1,033,260.00	\$ 1,033,260.00	\$ 1,033,260.00	\$ 1,033,260.00					
Fire Paging Solution		\$ 1,060,245.00								
Network Reconfiguration Estimated		\$ 896,000.00	\$ 896,000.00	\$ 896,000.00	\$ 896,000.00	\$ 896,000.00	\$ 340,000.00	\$ 340,000.00	\$ 340,000.00	\$ 340,000.00
Total Cost Proposed Projects		\$ 8,577,285.00	\$ 7,517,040.00	\$ 7,517,040.00	\$ 7,517,040.00	\$ 6,483,780.00	\$ 629,956.48	\$ 664,668.18	\$ 664,668.18	\$ 664,668.18
TOTAL	\$ 7,815,768.05	\$ 13,823,240.88	\$ 12,815,455.44	\$ 12,868,439.59	\$ 12,921,953.59	\$ 11,942,742.73	\$ 6,143,508.83	\$ 6,233,356.06	\$ 6,289,042.94	\$ 6,345,286.68

The costs listed on this Preliminary Cost Projection are based on full participation. Reductions in the number of users will impact maintenance costs. The radio system line item demonstrates 5 yearly payments to complete the purchase. The balance of the costs shown in that line item are the projected costs for maintenance for the regional logger.

This cost projection also includes preliminary cost estimates for network reconfiguration [sonet], airtime for Users, and the Fire Paging Solution.

This budget utilizes the FY10 operating budget costs with an adjustment in FY11 to eliminate current sonet costs based on network reconfiguration costs which include maintenance and monitoring estimates. This does not include eliminating the T1 lines at this time. The operating budget has been given a 3 percent increase in FY11, and a 1 percent increase annually for subsequent fiscal years. Investment opportunities are not projected at this time. The Wireline Revenue shows a 10 percent decrease annually. The Wireless Revenue utilizes the FY10 amount without additional increases. This is a conservative projection based known data and the current economic conditions.

Line Item Detail is not shown in this cost projection

It should be noted that the reserve fund is estimated to reach 5.6 million by FY24 based on this projection.

EMERGENCY TELEPHONE SYSTEM BOARD OF DU PAGE COUNTY
 MAINTENANCE COSTS FOR CONSOLES, CONTROL STATIONS AND LOGGER BY PROPOSED PSAPS

PSAP Agency	Number of OP Positions	Number of Control Stations	Console Type	Warranty	2nd year	3rd year	4th year	5th year	Estimated 6th year
DU-COMM	23	10	MCC7500		\$ 72,726.02	\$ 74,217.80	\$ 75,754.33	\$ 77,336.96	\$ 78,967.07
DuPage Sheriff	10	2	MCC7500		\$ 35,460.88	\$ 36,224.71	\$ 37,011.45	\$ 37,821.80	\$ 38,656.45
DuPage North	5	4	MCC7500		\$ 21,128.14	\$ 21,611.99	\$ 22,110.35	\$ 22,623.66	\$ 23,152.37
DuPage South	17	9	MCC7500		\$ 55,526.73	\$ 56,682.53	\$ 57,873.00	\$ 59,099.19	\$ 60,362.17
Nice Logger and NICE SSA			Total		\$ 291,697.35	\$ 299,578.27	\$ 307,695.61	\$ 289,956.48	\$ 324,668.18
			Total		\$ 476,539.12	\$ 488,315.29	\$ 500,444.75	\$ 486,838.09	\$ 525,806.23
Control Stations ONLY PSAPs				Warranty	2nd year	3rd year	4th year	5th year	6th year
Bloomington Fire		2			\$ 5,522.12	\$ 5,687.79	\$ 5,858.42	\$ 6,034.17	\$ 6,215.20
DuPage Forest Police		1			\$ 2,761.06	\$ 2,843.89	\$ 2,929.21	\$ 3,017.09	\$ 3,107.60
Tri-State		1			\$ 2,761.06	\$ 2,843.89	\$ 2,929.21	\$ 3,017.09	\$ 3,107.60
Wood Dale		2			\$ 5,522.12	\$ 5,687.79	\$ 5,858.42	\$ 6,034.17	\$ 6,215.20
			Total		\$ 16,566.37	\$ 17,063.36	\$ 17,575.26	\$ 18,102.52	\$ 18,645.60
			Grand Total		\$ 493,105.49	\$ 505,378.65	\$ 518,020.01	\$ 504,940.61	\$ 544,451.83

The cost projections for year 6 are based on use of Motorola for maintenance. If ETSB does not cover year 6, PSAPS could go out for bid or have their own maintainers for this equipment.

This proposal is based on the Users request to have consolidation discussions. Based on the User interest, the proposal is detailed as shown above. This is not a final solution, but it is the most cost effective. DuPage ETSB will continue to work with agencies regarding consolidation.

EMERGENCY TELEPHONE SYSTEM BOARD OF DU PAGE COUNTY
 MAINTENANCE COSTS FOR APX SUBSCRIBER UNITS BY PARTICIPATING AGENCY

Agency Name	Fire Units	Police Units	PSIC radios	ETSB Provided Radios	Total Units	1st year Warranty	Years 2, 3, 4	5th yr depot	6th yr depot
Addison FPD	52		11	41	52		INCLUDED IN THE PURCHASE OF THE APX SUBSCRIBER PORTABLE FOR ALL PARTICIPATING AGENCIES FOR THE UNITS LISTED ON THIS WORKSHEET PRICING DOES NOT INCLUDE UNITS PURCHASED BY USERS	\$ 3,640.00	\$ 3,750.00
Addison PD		79	16	63	79			\$ 5,530.00	\$ 5,695.00
Bartlett FPD	50		11	39	50			\$ 3,500.00	\$ 3,605.00
Bartlett PD		54	11	43	54			\$ 3,780.00	\$ 3,893.00
Bensenville FPD	32		7	25	32			\$ 2,240.00	\$ 2,307.00
Bensenville PD		41	9	32	41			\$ 2,870.00	\$ 2,956.00
Bloomingtondale FPD	38		8	30	38			\$ 2,660.00	\$ 2,740.00
Bloomingtondale PD		49	10	39	49			\$ 3,430.00	\$ 3,532.00
Carol Stream FPD	50		11	39	50			\$ 3,500.00	\$ 3,605.00
Carol Stream PD		68	14	54	68			\$ 4,760.00	\$ 4,902.00
Darien-Woodridge FPD	36		8	28	36			\$ 2,520.00	\$ 2,595.00
Darien PD		40	9	31	40			\$ 2,800.00	\$ 2,884.00
Downers Grove	50	81	27	104	131			\$ 9,170.00	\$ 9,445.00
DuPage Sheriff		411	83	328	411			\$ 28,770.00	\$ 29,633.00
OEM	34		7	27	34			\$ 2,380.00	\$ 2,451.00
Elmhurst	38	70	22	86	108			\$ 7,560.00	\$ 7,787.00
Glen Ellyn	50	43	19	74	93			\$ 6,510.00	\$ 6,705.00
Glenside FPD	30		7	23	30			\$ 2,100.00	\$ 2,163.00
Glendale Height PD		56	12	44	56			\$ 3,920.00	\$ 4,037.00
Hanover Park	40	52	19	73	92			\$ 6,440.00	\$ 6,633.00
Hinsdale	28	28	12	44	56			\$ 3,920.00	\$ 4,037.00
Itasca FPD	24		5	19	24			\$ 1,680.00	\$ 1,730.00
Itasca PD		28	6	22	28			\$ 1,960.00	\$ 2,018.00
Lisle-Woodridge FPD	80		17	63	80			\$ 5,600.00	\$ 5,768.00
Lisle PD		44	9	35	44			\$ 3,080.00	\$ 3,172.00
Lombard	48	73	25	96	121			\$ 8,470.00	\$ 8,724.00
Oak Brook	40	44	17	67	84			\$ 5,880.00	\$ 6,056.00
Oak Brook Terrace PD		22	5	17	22			\$ 1,540.00	\$ 1,586.00
Oak Brook Terrace FPD	22		0*	17	22		\$ 1,540.00	\$ 1,586.00	
PleasantView FPD	44		9	35	44		\$ 3,080.00	\$ 3,172.00	
Roselle	28	36	13	51	64		\$ 4,480.00	\$ 4,614.00	
Tri-State FPD	40		9	31	40		\$ 2,800.00	\$ 2,884.00	
Villa Park	34	42	16	60	76		\$ 5,320.00	\$ 5,480.00	
Warrenville FPD	38		8	30	38		\$ 2,660.00	\$ 2,740.00	
Warrenville PD		31	7	24	31		\$ 2,170.00	\$ 2,235.00	
West Chicago FPD	44		9	35	44		\$ 3,080.00	\$ 3,172.00	
West Chicago PD		52	11	41	52		\$ 3,640.00	\$ 3,750.00	
Westmont	44	44	18	70	88		\$ 6,160.00	\$ 6,344.00	
Wheaton	46	70	24	92	116		\$ 8,120.00	\$ 8,363.00	
Winfield FPD	28		6	22	28		\$ 1,960.00	\$ 2,018.00	
Winfield PD		21	5	16	21		\$ 1,470.00	\$ 1,514.00	
Wood Dale FPD	30		7	23	30		\$ 2,100.00	\$ 2,163.00	
Wood Dale PD		34	7	27	34		\$ 2,380.00	\$ 2,451.00	
Woodridge PD		57	12	45	57		\$ 3,990.00	\$ 4,109.00	
York Center FPD	30		7	23	30		\$ 2,100.00	\$ 2,163.00	
Totals	1148	1670	585	2228	2818		\$ 197,260.00	\$ 203,167.00	

EMERGENCY TELEPHONE SYSTEM BOARD OF DU PAGE COUNTY
 STARCOM21 AIR TIME PROJECTED COSTS

Agency Name	Fire Units	Police Units	PSIC radios	ETSB Provided Radios	Total Units	Cost per Unit	Air Time Cost per month	Air Time Cost Jun-Nov 2011
Addison FPD	52		11	41	52	\$ 30.00	\$ 1,560.00	\$ 9,360.00
Addison PD		79	16	63	79	\$ 30.00	\$ 2,370.00	\$ 14,220.00
Bartlett FPD	50		11	39	50	\$ 30.00	\$ 1,500.00	\$ 9,000.00
Bartlett PD		54	11	43	54	\$ 30.00	\$ 1,620.00	\$ 9,720.00
Bensenville FPD	32		7	25	32	\$ 30.00	\$ 960.00	\$ 5,760.00
Bensenville PD		41	9	32	41	\$ 30.00	\$ 1,230.00	\$ 7,380.00
Bloomingtondale FPD	38		8	30	38	\$ 30.00	\$ 1,140.00	\$ 6,840.00
Bloomingtondale PD		49	10	39	49	\$ 30.00	\$ 1,470.00	\$ 8,820.00
Carol Stream FPD	50		11	39	50	\$ 30.00	\$ 1,500.00	\$ 9,000.00
Carol Stream PD		68	14	54	68	\$ 30.00	\$ 2,040.00	\$ 12,240.00
Darien-Woodridge FPD	36		8	28	36	\$ 30.00	\$ 1,080.00	\$ 6,480.00
Darien PD		40	9	31	40	\$ 30.00	\$ 1,200.00	\$ 7,200.00
Downers Grove	50	81	27	104	131	\$ 30.00	\$ 3,930.00	\$ 23,580.00
DuPage Sheriff		411	83	328	411	\$ 35.00	\$ 14,385.00	\$ 86,310.00
OEM	34		7	27	34	\$ 35.00	\$ 1,190.00	\$ 7,140.00
Elmhurst	38	70	22	86	108	\$ 30.00	\$ 3,240.00	\$ 19,440.00
Glen Ellyn	50	43	19	74	93	\$ 30.00	\$ 2,790.00	\$ 16,740.00
Glenside FPD	30		7	23	30	\$ 30.00	\$ 900.00	\$ 5,400.00
Glendale Height PD		56	12	44	56	\$ 30.00	\$ 1,680.00	\$ 10,080.00
Hanover Park	40	52	19	73	92	\$ 30.00	\$ 2,760.00	\$ 16,560.00
Hinsdale	28	28	12	44	56	\$ 30.00	\$ 1,680.00	\$ 10,080.00
Itasca FPD	24		5	19	24	\$ 30.00	\$ 720.00	\$ 4,320.00
Itasca PD		28	6	22	28	\$ 30.00	\$ 840.00	\$ 5,040.00
Lisle-Woodridge FPD	80		17	63	80	\$ 30.00	\$ 2,400.00	\$ 14,400.00
Lisle PD		44	9	35	44	\$ 30.00	\$ 1,320.00	\$ 7,920.00
Lombard	48	73	25	96	121	\$ 30.00	\$ 3,630.00	\$ 21,780.00
Oak Brook	40	44	17	67	84	\$ 30.00	\$ 2,520.00	\$ 15,120.00
Oak Brook Terrace PD		22	5	17	22	\$ 30.00	\$ 660.00	\$ 3,960.00
Oak Brook Terrace FPD	22		0*	17	17	\$ 30.00	\$ 510.00	\$ 3,060.00

EMERGENCY TELEPHONE SYSTEM BOARD OF DU PAGE COUNTY
STARCOM21 AIR TIME PROJECTED COSTS

<u>Agency Name</u>	Fire Units	Police Units	PSIC radios	ETSB Provided Radios	Total Units	Cost per Unit	Air Time Cost per month	Air Time Cost Jun-Nov 2011
PleasantView FPD	44		9	35	44	\$ 30.00	\$ 1,320.00	\$ 7,920.00
Roselle	28	36	13	51	64	\$ 30.00	\$ 1,920.00	\$ 11,520.00
Tri-State FPD	40		9	31	40	\$ 30.00	\$ 1,200.00	\$ 7,200.00
Villa Park	34	42	16	60	76	\$ 30.00	\$ 2,280.00	\$ 13,680.00
Warrenville FPD	38		8	30	38	\$ 30.00	\$ 1,140.00	\$ 6,840.00
Warrenville PD		31	7	24	31	\$ 30.00	\$ 930.00	\$ 5,580.00
West Chicago FPD	44		9	35	44	\$ 30.00	\$ 1,320.00	\$ 7,920.00
West Chicago PD		52	11	41	52	\$ 30.00	\$ 1,560.00	\$ 9,360.00
Westmont	44	44	18	70	88	\$ 30.00	\$ 2,640.00	\$ 15,840.00
Wheaton	46	70	24	92	116	\$ 30.00	\$ 3,480.00	\$ 20,880.00
Winfield FPD	28		6	22	28	\$ 30.00	\$ 840.00	\$ 5,040.00
Winfield PD		21	5	16	21	\$ 30.00	\$ 630.00	\$ 3,780.00
Wood Dale FPD	30		7	23	30	\$ 30.00	\$ 900.00	\$ 5,400.00
Wood Dale PD		34	7	27	34	\$ 30.00	\$ 1,020.00	\$ 6,120.00
Woodridge PD		57	12	45	57	\$ 30.00	\$ 1,710.00	\$ 10,260.00
York Center FPD	30		7	23	30	\$ 30.00	\$ 900.00	\$ 5,400.00
Totals	1096	1591	558	2124	2682		\$ 82,685.00	\$ 496,110.00

1 Current rate for local agency: \$30 per unit per month.

2 Current rate for county-wide agencies is: \$35 per unit per month.

3 DuPage ETSB will reimburse for air time according to the schedule above. Air time for additional subscriber units, and mobile units are the responsibility of the User even if purchased in conjunction with the DuPage ETSB Interoperable Radio Project.

4 Motorola is currently in contract negotiations with the State of Illinois regarding the monthly air time rate for Starcom21. Therefore, pricing beyond November 30, 2011 is not currently available.

5 Oak Brook Terrace Fire Protection District did not participate in the PSIC Grant. Therefore, ETSB will provide Subscriber Units for this agency based on the number of total units less the 5 that would have been provided via the grant.



Fire Paging Equipment and Installation Cost Projection Summary

<u>Zone</u>	<u>Projected Cost</u>
North	\$220,532
East	\$230,192
South	\$230,192
West	\$273,038
PLVW/DWFD	\$83,966
South Central	N/A
Downers Grove	N/A
Spares	\$22,325
<u>Total Cost</u>	\$1,060,245.00

Supplemental Information on Fire Paging Equipment and Installation Cost Projection

- 1 Pricing structure is based on list price of Fire North Channel proposal to DU-COMM and adjusted to reflect the configuration of each zone.
- 2 Fire North projection is based on actual invoices to DU-COMM
- 3 Pricing does not include interface to 700MHz or console or monthly phone line cost between sites and to PSAP
- 4 Pricing does not include ongoing maintenance
- 5 South Central and Downers Grove do not need infrastructure replacement. Equipment is narrowband compliant and can be interfaced to consoles
- 6 PLVW/DWFD costs include antenna and coax replacement if needed. Also includes Tech installation cost [turnkey]
- 7 Fire West assumes IGA agreement between DU-COMM, Itasca, and Wood Dale to build one network. Includes Tech installation cost [turnkey]
- 8 If Itasca and Wood dale choose not to participate in DU-COMM's build out add \$60,000 to toil cost.
Recommend IGA between DU-COMM, ETSB, PLVW/DWFW, Wooddale, and Itasca for Du-COMM techs to install. Use of DU-COMM techs provides consistency of paging system build
- 9 outcross the 5 zones and is cost effective.
- 10 If the remote receivers are not paid for by the ETSB deduct \$80,000. Savings of 7%.
Recommendation: ETSB pay for receivers since the cost is minimal and provides fire service with a back up system as discussed in the fire white paper.